P 611 587 720

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John W. Weaver II, Vice-Pres
ATEC Associates, Inc.
1501 E. Main Street
Griffith, Indiana 46319

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S. Swanson (5 HE-12) US EPA, 230 S. Dearborn, Chgo, IL 60604

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Article Number: P 611 587 720

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X Lisa Szymaszek

6. Signature – Agent
X

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DOMESTIC RETURN RECEIPT

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
NANCY A. MALOLEY, Commissioner

105 South Meridian Street
P.O. Box 6015
Indianapolis 46206-6015
Telephone 317-232-8603

January 30, 1989

VIA CERTIFIED MAIL - P 652 575 210

Mr. Norman B. Hjersted, President
Conservation Chemical Company of Illinois
105 West 11th Street, Suite A
Lawrence, Kansas 66044

Re: Modified Closure Plan
Conservation Chemical Company of Illinois
Gary, Indiana
IND 040888992

Dear Mr. Hjersted:

On August 13, 1987, the Indiana Department of Environmental Management (IDEM) approved, with modifications, the Conservation Chemical Company of Illinois (CCCI) final closure plan submitted by CCCI to the IDEM on January 6, 1987, and the addendum submitted on May 11, 1987. The closure plan, as modified for approval, requires that additional information be submitted to allow the IDEM to evaluate the feasibility of the closure method proposed by CCCI. Failure to provide the information requested requires CCCI to implement clean closure as specified in the modified closure plan.

On August 28, 1987, CCCI filed a Petition for Administrative Review and Stay of Effectiveness. An adjudicatory hearing was scheduled for August 18 and 19, 1988, but was continued until September 19-21, 1988. On September 16, 1988, CCCI contacted Ms. Susan Luther, the Presiding Administrative Law Judge, by telephone and verbally withdrew their objections to the closure plan. On December 20, 1988, CCCI moved for an order dismissing its Petition for Review and Stay of Effectiveness of the Modified Closure Plan. The Presiding Administrative Law Judge ordered that CCCI's Petition for Review and Stay of Effectiveness of the Modified Closure Plan, Cause No. 87-S-A-47, be dismissed on January 17, 1989.

Now that CCCI's order has been dismissed by the Presiding Administrative Law Judge, applicable closure activities must be completed in accordance with the approved closure plan within one hundred and eighty (180) days after the date of receipt of the order dismissing CCCI's Petition for Review and Stay of Effectiveness of the Modified Closure Plan. When final closure is completed, the owner or operator must submit to the Commissioner a certification per 329 IAC 3-34-2(d) and 329 IAC 3-21-6 that the facility has been closed in accordance with the specifications in the approved closure plan. You must also, at this time, request that your Part A Permit Application be withdrawn.

Mail your response and certification to:

Mr. Thomas E. Linson, Chief
Plan Review and Permit Section
Hazardous Waste Management Branch
Office of Solid and Hazardous Waste Management
Indiana Department of Environmental Management
105 South Meridian Street
Indianapolis, Indiana 46225

Please direct all questions regarding the closure process to Ms. Debra Dubenetzky of the Plan Review and Permit Section at AC 317/232-3221.

Very truly yours,

Bruce Palin

Bruce Palin
Acting Assistant Commissioner for
Solid and Hazardous Waste Management

cc: Mr. Hak Cho, U.S. EPA, Region V
Mr. Bernie Orenstein, U.S. EPA, Region V
Lake County Health Department
Mr. Thomas Rarick, IDEM
Mr. Dennis Zawodni, IDEM
Mr. Jeff Stevens, IDEM
Ms. Sally Swanson, U.S. EPA, Region V
Mr. William Hutchins, U.S. DOJ, Washington D.C.
Mr. Louis Rundio, Jr., McDermott, Will and Emery
Mr. Michael Schaefer, Indiana Deputy Attorney General

JAN 24 1989

5CS-TUB-3

Louis Rundio, Esq.
McDermott, Will & Emery
111 West Monroe
Chicago, Illinois 60603-4067

RE: Conservation Chemical Company RCRA Closure Fund

Dear Mr. Rundio:

This is in response to your letter of August 15, 1989, regarding access to CCCI's closure fund. While I can understand CCCI's desire to deal with the stored solvents, and other wastes remaining on site, it does not appear that the closure fund now held under the authority of the Indiana Department of Environmental Management is adequate to address all aspects of closure that are likely to be required at the facility. As you know, the State of Indiana, as an authorized state under the RCRA program, makes determinations concerning application of closure funds. I suggest that your request for approval of closure activities should have been directed to that agency.

Please note, however, that Region V continues to maintain oversight responsibility and enforcement authority with respect to CCCI's activities at the site. I hope it is clear that referring you to the Department of Environmental Management is not equivalent to abdicating that responsibility.

With regard to the disposal of solvents, I hope you are aware that the Superfund removal action presently under way at the site will include the removal and disposal of the approximately 33,000 gallons of methylene chloride and other chlorinated solvents in tanks 15 and 25.

Sincerely yours,

Jonathan T. McPhee
Assistant Regional Counsel

cc: Sally Swanson
Bill Hutchins

Hak Cho

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
NANCY A. MALOLEY, Commissioner

105 South Meridian Street
P.O. Box 6015
Indianapolis 46206-6015
Telephone 317-232-8603

VIA CERTIFIED MAIL

Mr. Norman B. Hjersted, President
Conservation Chemical Company of Illinois
5201 Johnson Drive, Suite 400
Mission, KS 66205

Re: Modified Closure Plan
Conservation Chemical Company of Illinois
Gary, Indiana
IND 040888992

Dear Mr. Hjersted:

The Conservation Chemical Company of Illinois (CCCI) closure plan received by the Indiana Department of Environmental Management (IDEM) on January 1, 1987, and modifications received on May 11, 1987, are approved by the IDEM with further modification pursuant to 320 IAC 4.1-21-3(d).

CCCI must demonstrate to this office that the proposed technology is feasible at this site. The above-mentioned CCCI closure plan and modifications did not sufficiently address many concerns. Briefly, the closure plan, as modified for approval, requires further information in the following areas to allow the IDEM to evaluate the feasibility of the closure method proposed by CCCI.

-- Detailed background information.

-- Access rights.

-- Waste Analysis Plan.

-- Detailed site evaluation including geology and hydrogeology.

-- Compatibility of slurry wall to site.

-- Feasibility of final cap at the site.

-- Feasibility of post-closure plan.

Failure to provide the above-listed information requires CCCI to implement clean closure as specified in the modified closure plan.

Applicable closure activities must be completed in accordance with the approved plan within 180 days after the date of this approval letter. When total closure is completed, the owner or operator must submit to the Commissioner certification per 320 IAC 4.1-34-2(d) and 320 IAC 4.1-21-6 both by the owner or operator and by an independent registered professional engineer that the facility has been closed in accordance with the specifications in the approved plan. You must also, at this time, request that your Part A application permit be withdrawn. Mail your response and certification to:

Mr. Thomas L. Russell, Chief
Hazardous Waste Management Branch
Solid and Hazardous Waste Management
Department of Environmental Management
105 South Meridian Street
Indianapolis, IN 46225

In addition, Section 3004(U) of the Resource Conservation and Recovery Act (RCRA), as amended by Section 206 of the Hazardous and Solid Waste Amendments of 1984 (HSWA) requires that corrective actions be performed for all releases of hazardous waste or constituents from any solid waste management unit. The U.S. Environmental Protection Agency (U.S. EPA) has the authority to implement this provision. Therefore, this facility may still be subject to HSWA requirements. Section 3004(V) of RCRA prescribes authority to require corrective action beyond the facility boundary if releases of hazardous waste or constituents threaten human health and the environment.

If you wish to challenge this decision, IC 4-21.5-7 requires that you file a petition for administrative review. The petition must be submitted to me at the above address within eighteen (18) days of the mailing of this notice. The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision, or otherwise entitled to review by law.

Pursuant to IC 4-21.5-3-5(d), the Assistant Commissioner, on behalf of the Commissioner, will provide any person with notice of any pre-hearing conferences, preliminary hearings, hearings, stays, or orders disposing of the review of this decision if a written request is submitted to me at the above address within eighteen (18) days of the mailing of this notice.

Pursuant to IC 4-21.5-3-5(f) and 4-21.5-3-5(h), this modified closure plan takes effect eighteen (18) days from the mailing of this notice unless a petition for review and a petition for stay of effectiveness are filed within this 15-day period. If a petition for review and a petition for stay of effectiveness are filed, any part of the closure plan within the scope of the petition for stay is stayed an additional fifteen (15) days. The portion of the closure plan for which a petition for stay has been filed will take effect at the expiration of the additional 15-day period, unless or until an Adminstrative Law Judge stays the closure plan in whole or in part.

Please direct all questions regarding the closure process to Mr. Robert Cappiello at AC 317/232-3221.

Very truly yours,

Thomas L. Russell for

David D. Lamm
Assistant Commissioner for
Solid and Hazardous Waste Management

RJC/tjd

Enclosure

cc: Mr. Hak Cho, U.S. EPA, Region V (with enclosure)
Mr. Bernie Orenstein, U.S. EPA, Region V
Lake County Health Department
Mr. Jeffrey Stevens, IDEM
Ms. Sally Swanson, U.S. EPA, Region V (with enclosure)
Mr. William Hutchins, U.S. DOJ, Washington, D.C. (with enclosure)
Mr. Louis Rundio, McDermott, Will and Emery (with enclosure)
Mr. Mike Schaefer, Indiana Deputy Attorney General (with enclosure)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: AUG 0 6 1987

SUBJECT: Closure Plan For CCCI

FROM: Hak Cho, Chief
Indiana Unit, TPS

TO: Karl E. Bremer, Chief
Technical Program Section

At the request of Enforcement Branch, Herbert Levine, a geologist with the Indiana Unit, assisted EPA Enforcement and IDEM with their review of a closure plan submitted by the Conservation Chemical Company of Illinois (CCCI), Gary, Indiana, facility. This assistance was in the form of technical review and comments. In addition, a visit to IDEM was made during July 21-24, 1987, to further assist IDEM modify and approve the closure plan. The closure plan, with modifications, was sent by IDEM to William Hutchins, an attorney with the Deptment of Justice, on July 27, 1987, for his comments.

cc: Judy Kertcher
Bill Muno
Sally Swanson
Bernie Orenstein
Herb Levine

STATE of INDIANA

INDIANAPOLIS, 46225

DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT

105 South Meridian Street

January 29, 1987

Mr. Norman B. Hjersted, President
Conservation Chemical Company of Illinois
5201 Johnson Drive
Suite 400
Mission, KS 66205

Re: Notice of Deficiency
Second Completeness/Preliminary
Technical Review
Conservation Chemical Company of
Illinois, Gary, Indiana
IND040888992

Dear Mr. Hjersted:

This letter and attachment represent the Indiana Department of Environmental Management's (IDEM) second completeness and preliminary technical review of the Conservation Chemical Company of Illinois (CCCI) closure plan dated May 23, 1986. A July 28, 1986, CCCI response to the July 17, 1986, EPA/IDEM review is considered part of this closure plan. The joint U.S. Environmental Protection Agency (EPA) and IDEM review dated July 17, 1986, was the first completeness review.

Your response to this Notice of Deficiency should be received by the IDEM within 30 days of the date of this letter.

If you have any questions or need assistance, please contact Mr. Robert Cappiello of my staff at AC 317/232-3221.

Very truly yours,

Terry F. Gray

Terry F. Gray, Chief
Plan Review and Permit Section
Hazardous Waste Management Branch
Solid and Hazardous Waste Management

RC/rmw
cc: Mr. Hak Cho, U.S. EPA, Region V (with enclosures)
Ms. Sally Swanson, U.S. EPA, Region V (with enclosures)
Mr. Louis Rundio, McDermott, Will and Emery (with enclosures)
Mr. John W. Weaver, ATEC (with enclosures)

Notice of Deficiency
Second Completeness/Preliminary Technical Review
Conservation Chemical Company of Illinois
IND040888992

Section 1.0 Introduction

1. There is no mention that owner or operator certification and certification by an independent registered Professional Engineer will be provided upon completion of closure. (320 IAC 4.1-21-6)

2. There is no mention of the required land disposal notation on the deed to the facility property. (320 IAC 4.1-21-10)

Section 2.0 Site Characterization

3. The amount of each waste type left in the landfill upon closure must be stated. (320 IAC 4.1-28-4(c)).

4. The climate (rainfall) of the area must be stated. (320 IAC 4.2-28-4(c)).

Section 4.0 Closure Plan

Subsection 4.2.1.1 - Waste Characterization

5. When the closure plan was prepared, results of samples from tanks containing cyanide and metal hydroxide sludges were not available. If those sampling results are now available, they should be incorporated into the revised closure plan.

Subsection 4.2.2 - Neutral Acid Sludge--Disposal

6. The plan does not specify the method to be used for cutting the tank wall or appropriate safety precautions to be used. (320 IAC 4.1-24-5)

7. CCCI proposed to use lime kiln dust to solidify the neutralized acid sludge in lined sludge boxes. However, CCCI did not provide any information on the material of the liner and how to keep the integrity of the liner during mixing.

8. CCCI proposes to stabilize neutralized acid sludge on-site with Type C fly ash, lime kiln dust, and/or portland cement. However, CCCI did not include the detailed information regarding the stabilization process or the disposal method. This information should include: the proposed mixing ratio of acid sludge to fly ash, lime kiln dust and/or the portland cement; how and where to mix those materials; what kind of test will be conducted to determine if it is feasible to stabilize the sludge; and how and where to dispose the stabilized material on-site.

Subsection 4.2.3 - Oil, PCBs, and Water--Disposal

9. According to Table 5 of the closure plan, Tanks 19 and 22 contain 637,000 gallons of PCB-contaminated materials. This quantity will fill 106 tankers each with a 6,000-gallon capacity. The plan does not include detailed procedures on transferring the stored materials to the tankers and managing the tankers to prevent spills.

10. The plan does not specify the criteria CCCI used to determine that the PCB material is treatable.

11. The plan assumes that 80 percent of the PCB contaminants are treatable. However, if the PCB contaminants are not treatable, then incineration is the only disposal alternative. Therefore, the cost estimate should also reflect the contingency of incineration as the sole alternative. (320 IAC 4.1-22-3)

12. The plan does not indicate whether Disposal Systems, Inc.'s, portable treatment unit has the required permits or approvals to operate in the State of Indiana and the U.S. EPA, Region V.

13. The plan does not describe the disposal procedures for treated waste oil and water. (320 IAC 4.1-21-2)

Subsection 4.2.4 - Cyanide Solution--Disposal

14. CCCI proposes to treat the cyanide waste with hypochlorite. Therefore, the heading for this section should be "TREATMENT." Specify which type of hypochlorite will be used.

15. It is not clear how many tanks are used to store the cyanide waste. The plan states that the liquid cyanide wastes are stored in 12 tanks. However, the Emergency Act Plan states that the wastes are stored in 13 tanks, while Table 6 of the closure plan shows 16 tanks. Please explain these discrepancies.

16. The plan does not specify the final cyanide concentration level of the cyanide waste after treatment.

17. The plan does not specify whether CCCI will dispose of the treated cyanide waste on-site or off-site. If on-site, CCCI should specify the disposal location and procedures.

18. The plan does not specify the criteria CCCI will use to determine which cyanide waste is untreatable.

19. The closure plan cost estimate should also reflect the contingency of the cyanide waste being untreatable on-site. (320 IAC 4.1-22-3)

Subsection 4.2.6 - Silica Tetrachloride--Disposal

20. The plan states that special care will be necessary in handling the silica tetrachloride. However, CCCI did not specify the special care to be taken during the transfer operations.

Subsection 4.2.7 - Pickle Liquor and Process Products--Disposal

21. It is not clear what materials are stored in Tanks 40 and 41. The text of the plan states approximately 17,000 gallons of rain water and process acid are stored in Tanks 40 and 41. However, Table 7 of the plan shows that pickle liquor or process acid is stored in Tanks 40 and 41.

22. It is not clear what material Tank 42 contains. The plan states that Tank 42 contains pickle liquor. However, Table 7 shows that Tank 42 contains 2,500 gallons of silica tetrachloride.

23. The plan indicates that Tanks 50 and 51 contain approximately 1,400 gallons of pickle liquor. However, those two tanks are not included in Table 7.

Subsection 4.2.8 - Drums--Disposal

24. The cost estimate for drum disposal is not included in the Closure Plan. (320 IAC 4.1-22-3)

25. This subsection should be separate from the Tank Storage section or the section should be retitled.

26. The plan states that drums contain ignitable waste. It should provide the basis for this determination.

27. The plan states that approximately 154 drums remain at the site and provides waste analyses for 15 drums. However, the plan does not provide procedures and analytical methods to determine the contents of the remaining 139 drums.

Subsection 4.2.9 - Decontamination Procedures

28. The plan does not provide the cleanup standards to be applied to all the storage tanks after the decontamination process to verify that all hazardous wastes have been removed. (320 IAC 4.1-24-5 and 21-5)

Subsection 4.3.1.1 - Earthen Basins--Construction Considerations

29. The plan does not specify how and where to mix the lime and the contaminated waste or soil, and what safety precautions will be taken.

30. CCCI proposes to use fill material for the clay cap that has a minimum particle size of three inches. This is grossly inappropriate for a cap designed to keep water from infiltrating into the surface impoundments. (320 IAC 4.1-28-4)

31. Although the clay cap is depicted in Figure 10 of the closure plan, the closure plan does not provide a detailed description or drawing of the clay cap (the thickness of the clay material, and the slope of the final cap, among other details). (320 IAC 4.1-28-4)

32. CCCI proposed to close four basins at the site. However, detailed capping procedures for those basins are not provided. Therefore, it is not known that the capping procedures for the basins at Tanks 19 and 22 are the same as those for the pie-shaped and off-site basins. (320 IAC 4.1-28-4)

33. The plan does not provide information on the permeability of the final clay cap and how this will be verified. (320 IAC 4.1-28-4)

34. Specifications for the stabilization material are not given. (320 IAC 4.1-28-4)

35. The plan does not specify the material to be used for constructing the slurry wall. (320 IAC 4.1-28-4)

36. The plan does not identify the geologic formation that the slurry walls will be tied to. Boring logs indicate the presence of a 40-foot-thick sand layer above the confining clay layer. It will be impractical, if not impossible, to install a slurry wall to this depth in the sand formation. (320 IAC 4.1-28-4)

37. CCCI proposed to cap the basins with two (2) feet of clay, six (6) inches of sand, and six (6) inches of topsoil. However, those layers are not thick enough to withstand the freeze-thaw actions that will occur at the site. CCCI should refer to the U.S. EPA's guidance manual "Evaluation Cover Systems for Solid and Hazardous Waste" SW-867. (320 IAC 4.1-28-4)
This document is available through the Government Printing Office, Superintendent of Documents, Washington D.C. 20402, Telephone AC 202/783-3238.

Subsection 4.5 - Schedule of Implementation

38. The plan provides a list of the closure activities and their sequence. However, a time frame for each activity is not provided. (320 IAC 4.1-21-3)

39. There is no commitment to the 90-day limit for treatment, removal, or disposal of hazardous wastes once the closure plan has been approved. (320 IAC 4.1-21-4)

Section 5.0 Post-Closure Plan

Subsection 5.1 - General

40. It must be stated that all post-closure monitoring and maintenance activities will continue for 30 years after the date of completing closure. (320 IAC 4.1-21-7)

Subsection 5.2 - Site Maintenance

41. It must be stated that post-closure use of the property will never be allowed to disturb the integrity of the final cover. (320 IAC 4.1-21-7)

Subsection 5.4 - Conclusion

A section similar to this should be added to include the following comments:

42. The post-closure plan must state that the owner/operator will amend the post-closure plan as 320 IAC 4.1-21-8(b), (e), and (f) specify.

43. The owner of this property must make a notation on the deed to this property as specified in 320 IAC 4.1-21-10.

Section 6.0 Cost Estimate

Subsection 6.1 - Closure Plan

44. In general, the plan does not provide a detailed cost estimate. More specifically, the plan does not include the unit cost for equipment, the distance for transportation for disposal of wastewater/cleaning waste, the hourly rate for the personnel, the estimated man hours for each activity, or the unit cost for disposal at each proposed disposal facility. (320 IAC 4.1-22-3)

45. As mentioned in Comment 37 above, the thickness of the capping material proposed by CCCI does not meet the recommended thickness. Therefore, the estimated cost associated with the capping material is low. (320 IAC 4.1-22-3)

46. The plan does not indicate the average depth or materials of the slurry wall; therefore, it is impossible to evaluate the estimated cost for the slurry wall. (320 IAC 4.1-22-3)

47. The plan does not provide the cost estimate for the disposal of cyanide and PCB's oil waste off-site, if they are not treatable on-site. (320 IAC 4.1-22-3)

Subsection 6.2 - Post-Closure Plan

48. CCCI proposes to get a waiver from the U.S. EPA to reduce the quarterly groundwater monitoring to yearly for years 2 to 30. The cost estimate for groundwater monitoring is based on that assumption. However, the plan does not include an alternate cost estimate in case the U.S. EPA does not grant the waiver. (320 IAC 4.1-22-3)

49. CCCI assumed that the U.S. EPA wells C3 and C4 may be used for post-closure groundwater monitoring. However, the post-closure plan lack contingencies for additional monitoring wells in case CCCI is not allowed to use these two wells. (320 IAC 4.1-21-7)

50. A mechanism of financial assurance for the closure and post-closure plans must be included. (320 IAC 4.1-22-4)

5HE-12

05 FEB 1987

Mr. William Sierks
United States Department of Justice
Land & Natural Resources Division
Environmental Enforcement Section
10th & Pennsylvania N.W.
Washington, D.C. 20530

Dear Mr. Sierks:

Attached please find Indiana Department of Environmental Management's Notice of Deficiency to Conservation Chemical Company of Illinois.

If you have any questions feel free to call me at (312) 886-4454.

Sincerly yours,

Sally K. Swanson, Chief
Enforcement Programs Unit #2

Attachments

bcc: Jon McPhee, ORC
Rick Hersemann, RES

5HE-12:RRS:rrs:6-8093:02/04/87:RS Disk

	TYPIST	AUTHOR	OTHER STAFF	DEPT CHIEF	SECT. CHIEF	SUPT. CHIEF	BRANCH CHIEF	DIV. DIR.
INIT. DATE	RS 2/4/87	RS 2/4/87		SIGS 2/4/87				

5HE-12

MAY 19 1987

Mr. Bill Hutchings
U.S. Department of Justice
Land and Natural Resources Division
Environmental Enforcement Section
10th & Pennsyvania Avenue, NW
Washington, D.C. 20530

Dear Mr. Hutchings:

Enclosed, please find a copy of the response to the notice of deficiency, site assessment and closure plan, for Conservation Chemical Company of Illinois.

If you have any questions or comments you may reach me at (312) 886-4454.

Sincerely yours,

Sally K. Swanson, Chief
Enforcement Programs Unit #2

Enclosure

bcc: J. McPhee
R. Hersemann

5HE-12:RRS:6-8093:05-18-87

	TYPIST	AUTHOR	OTHER STAFF	UNIT CHIEF	SECT. SEC'Y	SECT. CHIEF	HWEB CHIEF	WMD DIR
INIT. DATE	RSE 05/19	ab for SKS						

5HE-12

19 DEC 1986

Terry Gray, Chief
Permit and Plan Review Section
Office of Solid and Hazardous Waste
Indiana Department of Environmental Management
105 South Meridian Street
Indianapolis, Indiana 46225

Dear Mr. Gray:

Enclosed is our contractor's final report of its review of Conservation Chemical Company of Illinois' (CCCI) closure plan. We have reviewed the report and find that it addresses the Agency's concerns with plan deficiencies.

As I discussed with Bob Capiello of your staff, CCCI's closure plan was submitted in response to orders from the U.S. District Court in Hammond. We agreed that he will expedite the reviews of this plan and send the State's comments to CCCI by mid-January of 1987.

Please contact me at (312) 886-4454 if you have any questions concerning this report. Also, please let me know if any problems arise in your review schedule.

Sincerely yours,

Sally K. Swanson, Chief
Enforcement Programs Unit 2

Enclosure

cc: Dennis Zawodni, IDEM
w/attachment

bcc: McPhee, ORC, w/attachment
Sierks, DOJ, "
Cho, SWB, "
Hersemann, RES

		AUTHOR	OTHER STAFF	UNIT CHIEF	SECT. CHIEF
	RS 12/17/86			SKS 12-18-86	MEH 12/19/86

5HE-12:S. SWANSON:rrs:6-8093:12/17/86:SS DISK

PRC Engineering
Suite 600
303 East Wacker Drive
Chicago, IL 60601
312-938-0300
TWX 910-2215112
Cable CONTOWENG

prc
Planning Research Corporation

December 11, 1986

Ms. Sally K. Swanson, Chief
Enforcement Programs Unit No. 2
Hazardous Waste Enforcement Branch
U.S. EPA Region 5 (5HE-12)
230 S. Dearborn Street
Chicago, IL 60604

Re: Conservation Chemical Company of Illinois
Work Assignment No. 503

Dear Ms. Swanson:

PRC Environmental Management, Inc. is please to submit for your review and comment our final report on the technical evaluation of the closure plan for Conservation Chemical Company of Illinois.

If you have any questions please contact me.

Sincerely,

PRC Environmental Management, Inc.

David H. Homer, Ph.D.
Project Manager

DHH/klb

cc: Arlene Kaganove
Nancy Deck
Bruce Bakaysa (letter only)

1 8 NOV 1986

Draft Report of CCCI Closure Plan Technical Review

Sally K. Swanson Chief
Enforcement Programs Unit #2

Hak K. Cho Chief
Indiana Unit

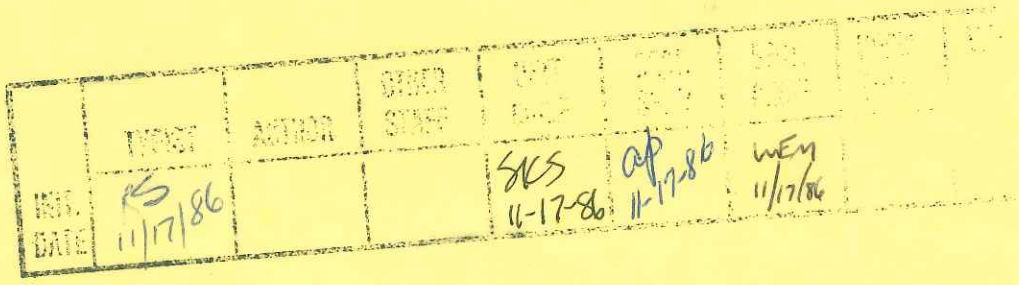
Attached is a copy of a draft report prepared by our TES Contractor with comments on Conservation Chemical Company of Illinois' closure plan. The closure plan is essentially complete, however, the report notes numerous technical deficiencies. Also attached is the closure plan and related correspondence.

I have discussed this report with Terry Gray and will be getting comments from him. If you have any comments I will be glad to include them in my response to the contractor. If you wish to comment, please do so by COB November 21, 1986.

Attachments

cc: Rick Hersemann
w/attachments

5HE-12:S. Swanson:rrs:11-17-86:SW Disk



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604

REPLY TO THE ATTENTION OF:
5HE-12

18 NOV 1986

Terry Gray, Chief
Plan, Permits and Review Section
Hazardous Waste Management Branch
Indiana Department of Environmental
Management
105 South Meridian Street
Indianapolis, Indiana 46225

Dear Mr. Gray:

As we recently discussed, under our Technical Enforcement Support Contract, the United States Environmental Protection Agency had a review done of the closure plan submitted by Conservation Chemical Company of Illinois (IND 040 888 992). We now have the draft report of the technical review performed by the contractor.

Enclosed is a copy of this draft report. We would welcome any of your comments on the report for inclusion in our comments to the contractor. Once the report is finalized, it will be made available to you.

Please contact me directly at (312) 886-4454 with your comments on the draft report. I hope to have comments to the contractors by November 24, 1986.

Sincerely yours,

Sally K Swanson

Sally K. Swanson, Chief
Enforcement Programs Unit #2

cc: Dennis Zawodni, IDEM
w/attachment

bcc: Pat Vogtman
HAK Cho

5HE-12

18 NOV 1986

Terry Gray, Chief
Plan, Permits and Review Section
Hazardous Waste Management Branch
Indiana Department of Environmental
Management
105 South Meridian Street
Indianapolis Indiana 46225

Dear Mr. Gray:

As we recently discussed, under our Technical Enforcement Support Contract, the United States Environmental Protection Agency had a review done of the closure plan submitted by Conservation Chemical Company of Illinois (IND 040 888 992). We now have the draft report of the technical review performed by the contractor.

Enclosed is a copy of this draft report. We would welcome any of your comments on the report for inclusion in our comments to the contractor. Once the report is finalized, it will be made available to you.

Please contact me directly at (312) 886-4454 with your comments on the draft report. I hope to have comments to the contractors by November 24, 1986.

Sincerely yours,

Sally K. Swanson, Chief
Enforcement Programs Unit #2

cc: Dennis Zawodni, IDEM
w/attachment

bcc: Pat Vogtman, SWB
Hak Cho, SWB

5HE-12:S. SWANSON:rrs:11/17/86:SS Disk

	TYPIST	AUTHOR	OTHER STAFF	UNIT CHIEF	SECT. SUPV.	SECT. CHIEF	BRANCH CHIEF	DIV. DIR.
INIT.	RS			SKS	afp	WEn		
DATE	11/17/86			11/17	11/17/86	11/17/86		

5HE-12

0 2 SEP 1986

Dr. David Homer
PRC Engineering
Suite 600
303 East Wacker Drive
Chicago, Illinois 60601

Dear Dr. Homer:

As we discussed in our conversation on August 28, 1986, enclosed is correspondence from ATEC Associates on behalf of Conservation Chemical Company of Illinois (CCCI), dated July 28, 1986. The letter contains the response to our Notice of Deficiency on CCCI's closure plan.

Please review ATEC's submittal to determine whether it contains the required information. If so, please notify the Agency in writing and proceed with the detailed technical evaluation of the closure plan. If you determine the closure plan remains incomplete, please send a letter report outlining the deficiencies.

If you have any questions concerning this matter, please do not hesitate to contact me at (312) 886-4454.

Sincerely yours,

Sally K. Swanson, Chief
Enforcement Programs Unit #2

Enclosure

bcc: Jon McPhee, ORC w/Enclosure
Arlene Kaganove

5HE-12:S. SWANSON:rrs:6-8093:08-29-86:SS Disk

	TYPIST	AUTHOR	OTHER STAFF	UNIT CHIEF	SECT. SEC'Y	SECT. CHIEF	BRANCH CHIEF	LAND DIV.
INIT. DATE	RS 8/29/86			SKS 8/29/86		JMB 8/29/86		

C: The closure plan mentions that changes to the plan or descriptions of the procedures to be used for closure are dependent on additional information. The plan does not address how the plan will be amended to address these changes [320 IAC 4.1-21-3(b)].

R: Although additional information, including data from the recent sampling and analyses performed by the PRP group, may have bearing on some of the specified procedures, we expect that for the most part, additional information will merely confirm our present findings. If, upon review of the new analytical data, changes become necessary, the revisions will be handled by amendment.

The owner or operator will amend the plan whenever changes in operating plans of facility design affect the closure plan, or whenever there is a change in the expected year of closure. The plan will be amended within 60 days of such changes.

C: The post-closure plan does not describe the frequency of maintenance activities during the post-closure care period [320 IAC 4.1-21-8(a)(2)].

R: As presented in Section 6.2 of the closure plan, visual inspections will be performed quarterly for the first year of post closure, annually for years 2 through 30. These inspections will be in writing and will consist of visual observations to check for signs of erosion, leaching or damage to the wells.

Erosion or other deterioration judged to impair on-site closure performance will be repaired. This work will be supervised by an engineer or his representative familiar with the technical intent of the closure.

Backhoe repair of erosional features are assumed to be necessary on years 1, 3, 7, 15, and 25. Actual frequency of maintenance activities to be performed on the cap and monitoring wells will be determined based on the above scheduled inspections.

C: The post-closure plan does not identify a facility contact (person or office) for the life of the post-closure care period [320 IAC 4.1-21-8(a) (3)].

R: The facility contact for the life of the post-closure care period shall be the office of:

Conservation Chemical Company of Illinois
5201 Johnson Drive
Suite 400
Mission, KS 66205
Telephone: (913) 262-3649

An up dated version of the closure plan shall be kept by the above office for the post-closure care period.

C: The closure and post-closure plans do not describe the procedures Conservation Chemical Company will follow to notify the local land authority of the information required in 320 IAC 4.1-21-9.

R: Within 90 days after closure is complete, the Conservation Chemical Company of Illinois will submit to the local land authority and to the Indiana Environmental Management Board a survey plat indicating the location and dimensions of the closure containment structures with respect to permanent survey bench marks. This plat will be prepared by a professional land surveyor. Information regarding type, location, and quantity of disposed hazardous wastes will be included.

C: The post-closure plan does not describe how Conservation Chemical Company will limit access to surface impoundments during the post-closure care period [320 IAC 4.1-25-6(c) and 320 IAC 4.1-28-4(b)].

R: In accordance with the applicable regulations, the surface impoundments shall be closed as a landfill. The complete containment structure, described with detail in the May 23, 1986 report, will thus control migration to the ground water, surface water, and air. Infiltration will be controlled by the proposed cap and the cap will be protected from erosion by the vegetative cover. Access to the entire area will then be restricted by a locking security fence with proper warning signs.

We trust this information is sufficient to complete our May 23, 1986 closure plan. If any questions arise, please feel free to contact us.

Very truly yours,
Atec Associates, Inc.

Steven Stanford
Geologist

John W. Weaver II, P.E.
Vice President

cc: Norman B. Hjersted, President
Conservation Chemical company of Illinois

Louis Rundio
McDermott, Will & Emery

Dennis Williamson
Indiana Department of Environmental
Management Branch

ATEC Associates, Inc.

☐ 1501 East Main Street • Griffith, Indiana 46319 (219) 924-6690/(312) 375-9092
☐ 13450 South Cicero Avenue, Unit C • Crestwood, Illinois 60445 (312) 388-0895

July 28, 1986
File 6-3030

Ms. Sally K. Swanson, 5HE-12
U.S.EPA
230 South Dearborn Street
Chicago, IL 60604

Response to U.S.EPA Review
May 23, 1986 Closure Plan
Conservation Chemical Company of Illinois

Dear Ms. Swanson:

This letter is an item by item response to the U.S.EPA review comments, dated July 17, 1986, sent to Mr. John W. Weaver and received July 17, 1986.

This letter constitutes an amendment to the closure plan and is pre-punched for insertion into the May 23, 1986 report, under the enclosed addenda tab. U.S. EPA comments are reproduced verbatim, C: = Comment, and followed immediately with our replies, R: = Reply.

C: The closure plan does not provide an estimate of the expected year of closure. It states that the year of closure is currently unknown [320 IAC 4.1-21-3(a) (4)].

R: Initiation of closure activities will commence subsequent to the approval of our closure plan. Assuming the closure plan is reviewed and approved within one (1) year of the date of this letter, we expect final closure to be completed in 1989.

C: The closure plan mentions that changes to the plan or descriptions of the procedures to be used for closure are dependent on additional information. The plan does not address how the plan will be amended to address these changes [320 IAC 4.1-21-3(b)].

R: Although additional information, including data from the recent sampling and analyses performed by the PRP group, may have bearing on some of the specified procedures, we expect that for the most part, additional information will merely confirm our present findings. If, upon review of the new analytical data, changes become necessary, the revisions will be handled by amendment.

The owner or operator will amend the plan whenever changes in operating plans of facility design affect the closure plan, or whenever there is a change in the expected year of closure. The plan will be amended within 60 days of such changes.

C: The post-closure plan does not describe the frequency of maintenance activities during the post-closure care period [320 IAC 4.1-21-8(a)(2)].

R: As presented in Section 6.2 of the closure plan, visual inspections will be performed quarterly for the first year of post closure, annually for years 2 through 30. These inspections will be in writing and will consist of visual observations to check for signs of erosion, leaching or damage to the wells.

Erosion or other deterioration judged to impair on-site closure performance will be repaired. This work will be supervised by an engineer or his representative familiar with the technical intent of the closure.

Backhoe repair of erosional features are assumed to be necessary on years 1, 3, 7, 15, and 25. Actual frequency of maintenance activities to be performed on the cap and monitoring wells will be determined based on the above scheduled inspections.

C: The post-closure plan does not identify a facility contact (person or office) for the life of the post-closure care period [320 IAC 4.1-21-8(a) (3)].

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Conservation Chemical Company of Illinois
5201 Johnson Drive
Suite 400
Mission, KS 66205
Telephone: (913) 262-3649

An up dated version of the closure plan shall be kept by the above office for the post-closure care period.

C: The closure and post-closure plans do not describe the procedures Conservation Chemical Company will follow to notify the local land authority of the information required in 320 IAC 4.1-21-9.

R: Within 90 days after closure is complete, the Conservation Chemical Company of Illinois will submit to the local land authority and to the Indiana Environmental Management Board a survey plat indicating the location and dimensions of the closure containment structures with respect to permanent survey bench marks. This plat will be prepared by a professional land surveyor. Information regarding type, location, and quantity of disposed hazardous wastes will be included.

C: The post-closure plan does not describe how Conservation Chemical Company will limit access to surface impoundments during the post-closure care period [320 IAC 4.1-25-6(c) and 320 IAC 4.1-28-4(b)].

R: In accordance with the applicable regulations, the surface impoundments shall be closed as a landfill. The complete containment structure, described with detail in the May 23, 1986 report, will thus control migration to the ground water, surface water, and air. Infiltration will be controlled by the proposed cap and the cap will be protected from erosion by the vegetative cover. Access to the entire area will then be restricted by a locking security fence with proper warning signs.

We trust this information is sufficient to complete our May 23, 1986 closure plan. If any questions arise, please feel free to contact us.

Very truly yours,
Atec Associates, Inc.

Steven Stanford
Geologist

John W. Weaver II, P.E.
Vice President

cc: Norman B. Hjersted, President
Conservation Chemical company of Illinois

Louis Rundio
McDermott, Will & Emery

Dennis Williamson
Indiana Department of Environmental
Management Branch

5HE-12

12 JUN 1986

Dr. David Homer
PRC Engineering
Suite 600
303 East Wacker Drive
Chicago, Illinois 60601

Dear Dr. Homer:

This is to confirm that I transmitted Conservation Chemical Company of Illinois' (CCCI) closure plan dated May 23, 1986, to your office. The plan should have been in your hands by Wednesday, June 9, 1986. I look forward to receiving your evaluation of the plan, per our contract work plan.

Also, you requested a copy of the FY'87 RCRA Implementation Plan. Enclosed is a copy dated May 16, 1986. To my knowledge, this is the most current edition.

If you have any questions concerning the review of CCCI's closure plan, please call me at (312) 886-4454. I will be happy to provide any additional information you might need.

Sincerely yours,

Sally K. Swanson, Chief
Enforcement Programs Unit #2

Enclosure

bcc: Jon McPhee, ORC
Arlene Kaganove, RES

5HE-12:SKSWANSON:rrs:06-11-86:MISC. DISK

	TYPIST	AUTHOR	OTHER STAFF	UNIT CHIEF	STAFF STUDY			
INIT. DATE	RS 6-11-86			SKS 6-11-86	ap 6-12-86	WEN 6/12/86		

5HE-12

17 JUL 1986

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

John W. Weaver II, Vice-President
ATEC Associates, Inc.
1501 East Main Street
Griffith, Indiana 46319

RE: May 23, 1986, Closure Plan
Conservation Chemical Company
of Illinois

Dear Mr. Weaver:

On March 27, 1986, Magistrate Rodovich of the United States District Court in Hammond ordered your client, Norman B. Hjersted, of Conservation Chemical Company of Illinois, to submit a closure plan for the facility in Gary, Indiana. The Order required the plan to be sent to this Agency and the State of Indiana by May 1, 1986.

This plan was submitted to the United States Environmental Protection Agency (U.S. EPA) and the Indiana Department of Environmental Management (IDEM) under your signature in a letter dated May 23, 1986. Our office and the IDEM have jointly reviewed the closure and post-closure plan for completeness, and have identified six areas which require additional information.

Mr. William Sierks of the United States Department of Justice has spoken with Mr. Louis Rundio, Counsel for Mr. Hjersted. Mr. Rundio requested that our comments be sent to you directly. The following items must be addressed:

1. The closure plan does not provide an estimate of the expected year of closure. It states that the year of closure is currently unknown [320 IAC 4.1-21-3(a)(4)].

2. The closure plan mentions that changes to the plan or descriptions of the procedures to be used for closure are dependent on additional information. The plan does not address how the plan will be amended to address these changes [320 IAC 4.1-21-3(b)].

3. The post-closure plan does not describe the frequency of maintenance activities during the post-closure care period [320 IAC 4.1-21-8(a)(2)].

4. The post-closure plan does not identify a facility contact (person or office) for the life of the post-closure care period [320 IAC 4.1-21-8(a)(3)].

5. The closure and post-closure plans do not describe the procedures Conservation Chemical Company will follow to notify the local land authority of the information required in 320 IAC 4.1-21-9.

6. The post-closure plan does not describe how Conservation Chemical Company will limit access to surface impoundments during the post-closure care period [320 IAC 4.1-25-6(c) and 320 IAC 4.1-28-4(b)].

The information outlined above must be submitted within 15 days of receipt of this letter to U.S. EPA, Attention: Ms. Sally K. Swanson, 5HE-12, 230 South Dearborn Street, Chicago, Illinois 60604; and to Indiana Department of Environmental Management, Attention: Dennis Williamson, Hazardous Waste Management Branch, 105 South Meridian Street, Indianapolis, Indiana 46225. Upon timely receipt of all information needed, the closure plan will be deemed complete and the detailed technical review of the closure and post-closure plans will begin.

If you have any questions concerning the completeness review, please contact Ms. Swanson at (312) 886-4454. Any questions concerning the specific requirements of the Court Order should be directed to Jonathan McPhee, at (312) 886-5348.

Sincerely,

Basil G. Constantelos, Director
Waste Mangement Division

cc: Norman B. Hjersted, President
Conservation Chemical Company of Illinois

Louis Rundio
McDermott, Will and Emery

Dennis Williamson
IDEM

bcc: McPhee, ORC
Bill Sierks, DOJ

5HE-12:SKSWANSON:rrs:07/10/86:6-8093:SW Disk

INIT. DATE	TYPIST	AUTHOR	OTHER STAFF	UNIT CHIEF	SECT. SEC'Y	SECT. CHIEF	BR. CHIEF	DIV. DIR.
	RS 7-10-86	Sally Swanson 7-9-86	Sally Swanson 7-10-86		7-11-86	7/11/86	7/14/86	

Conservation Chem.

CONSERVATION CHEMICAL COMPANY
OF ILLINOIS

5201 Johnson Drive
Suite 400
Mission, Ks. 66205
913-262-3649

ES

December 5, 1985

RECEIVED
DEC 10 1985
U.S. EPA, REGION V
WASTE MANAGEMENT DIVISION
HAZARDOUS WASTE ENFORCEMENT BRANCH

US EPA
Waste Management Division
230 South Dearborn Street
Chicago, Illinois 60604

ATTN: RCRA Enforcement Section 5HE-12

Gentlemen:

Here is the information requested in your letter dated November 11, 1985.

(1) Refer to Figure 1
Pie Basin called surface impoundment in Part A application but later called waste pile.

T-19 Basin would not drain (as T-22 Basin does) contained leakage from Tank 19. Used as a receptor for surface water, contaminated with process water.

(2) Same as above.

(3) Same as above. A closure plan was submitted with Part B application. However, since that time EPA Superfund team has come in and announced they would clean up these facilities.

(4) (a) T-19 Basin except for leak, which was [illegible] under 4,000 gallons of oil, no figures were kept on quantities. However, when surface water contaminated with process water was pumped into on-site tankage approximately 70,000 gallons were generated based on gauges taken during the period November 10 thru December 5. 3,876 lbs. of Caustic (NaOH) was used to neutralize this material in the same period. The base load is estimated at 6,023 gallons/month from Gland Water and 5,000 gallons/month from washing filter, the remainder is rain water. See attached data sheet.

No material was placed in the pie Basin in 1985.

(b) T-19 Basin clean-up started in mid October, 1985. No material was added after clean-up started.

(c) NO

(d) Neutralized surface water contaminated with process water pump to tankage R-3, R-30, $$-1, 41, 45, 44, awaiting settlement of solids and acceptance at outside disposal facility.

(e) No such material will be generated as plant will be closed down by Christmas.

Very truly yours,

CONSERVATION CHEMICAL COMPANY OF ILLINOIS

Norman B. Hjersted
President

NBH:sb

Enclosures

cc: Lloyd T, Kaiser
Don Grimmett
Dave Connolly
Lewis M. Rundio, Jr. - McDermott, Will & Emery
Jonathan McPhee - EPA Region 5

CONSERVATION CHEMICAL COMPANY
OF ILLINOIS
BOX 6066, GARY, INDIANA 46406
Area Code 219 949-8229

TABLE I

October 22, 1985

The figures below are based on information obtained from pump logs, shipping logs and batch logs. For period between 9/22/85 and 10/22/85. D.G.

Tank CB-3

PH 6
Gland H_2O - 5 GPH

Pump Usage
27 hrs - Pickle Liquor Transfer
27 hrs - $FeCl_3$ Transfer
414 hrs - Process time (Reactor)

468 hrs Total ≈2340 GAL.

Tank F-1

PH 6
Gland H_2O 6 GPH

Pump Usage
28 hrs - Pickle Liquor Transfer
28 hrs - $FeCl_3$ Transfer
6 hrs - Railcar Loading
261½ hrs - Process time
323½ hrs Total ≈1939 GAL.

Transfer Pump

PH 6
Gland H_2O - 6 GPH

Pump Usage
15 hrs - Truck Loading ($FeCl_3$)
9 hrs - Rail Loading ($FeCl_3$)

24 hrs Total ≈144 GAL.

Loading Pump

PH 5
Gland H_2O - 50 GPH

Pump Usage
9 hrs - Truck Loading ($FeCl_3$)
23 hrs - Rail Loading ($FeCl_3$)

32 Total ≈1600 GAL

TOTAL GAL. PROCESS WATER: 6023 (GLAND)
5000 (FILTER CLEANING)
11023

TOTAL RAIN WATER CONTAMINATED WITH PROCESS WATER = 170000 GAL.
PERIOD NOV. 10 - DEC 5.

CAUSTIC USED TO NEUTRALIZE 1900 GAL × 10.2 LBS/GAL × 1.20 SODIUM = 3876 LBS
SAME PERIOD.

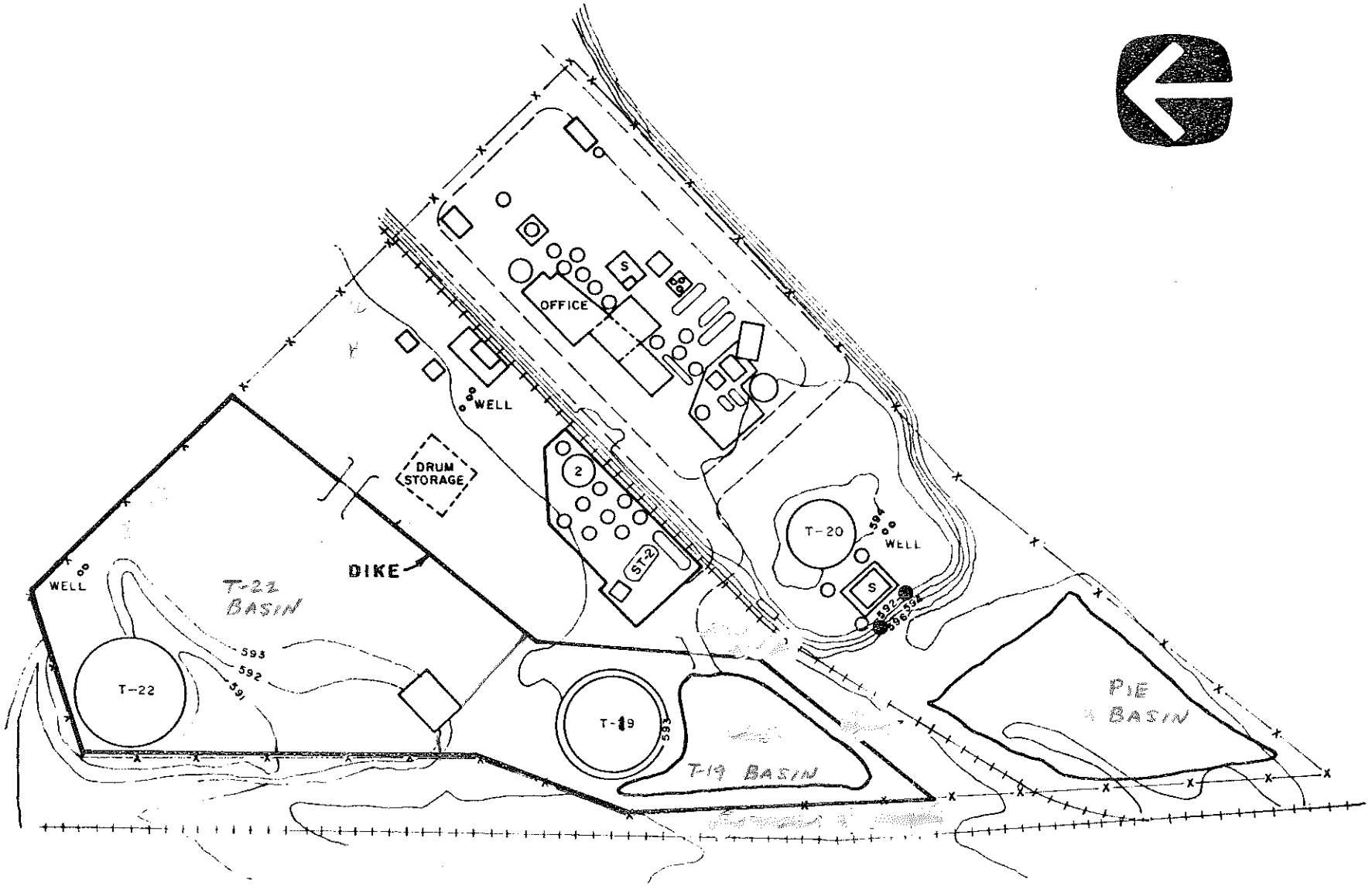

FIGURE 1

Dames & Moore

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
NANCY A. MALOLEY, Commissioner

105 South Meridian Street
P.O. Box 6015
Indianapolis 46206-6015
Telephone 317-232-8603

June 17, 1987

Mr. Hak Cho
U.S. EPA, Region V
230 South Dearborn Street
Chicago, IL 60604

Dear Mr. Cho:

On May 29, 1987, Mr. Herb Levine requested a copy of the closure plan for Conservation Chemical Company of Illinois, Gary, IN (IND 040888992). Enclosed is the copy which he requested, please forward to Mr. Levine at the earliest opportunity.

Very truly yours,

Terry F. Gray

Terry F. Gray, Chief
Plan Review and Permit Section
Hazardous Waste Management Branch
Solid and Hazardous Waste Management

RJC/ram
Enclosure

TABLE OF CONTENTS

Section I.--Introduction

Section II.--Closure Plan Modifications

Section III.--Clean Closure Option

Section IV.--Closure Certifications

Section V.--Financial Assurance for Closure and Post-Closure

Section VI.--Liability Coverage

Section VII.--Health and Safety Plan/Emergency Contingency and Response Plan

Attachment A--Detailed Closure Plan Modifications

Attachment B-1--Health and Safety Plan

Attachment B-2--Emergency Contingency and Response Plan

Section I.--Introduction

These modifications consist of performance standards that must be met in order to utilize the on-site closure option. As a result of the addition of these performance standards and the extent of modifications made to the original closure plan and subsequent Notice of Deficiency response, the following caveats are being included.

In situations where there exists a conflict or contradiction between the Closure Plan submitted by Conservation Chemical Company of Illinois (CCCI) and the modifications made by the Indiana Department of Environmental Management (IDEM), the modifications have precedence.

In situations where testing, reporting, and procedures for closure and post-closure are required but have not been specified in either the Closure Plan or in the modifications, the procedures must be followed as required in 320 IAC 4.1 (Hazardous Waste Management Permit Program and Related Hazardous Waste Management Requirements of Indiana).

In situations where reports are required to be submitted to the IDEM and it is not specified that approval from IDEM is required, CCCI shall proceed with the next element or phase of the closure plan. If the Closure Plan and modifications specify that IDEM approval is required prior to implementation of the next element or phase, CCCI must wait for that approval. This requirement is essential prior to the installation of the slurry wall. CCCI shall not install the slurry wall without written approval from the IDEM.

Section II.--Closure Plan Modifications

A. In accordance with 320 IAC 4.1-25-6(c), gather all existing site- and relevant off-site characterization information collected by the facility owner/operator and contractors, including (but not limited to):

-- Known sources of contamination.

-- Specific types of contaminants (see Attachment A).

-- Concentration of nearby contamination.

-- Location of contamination sources.

-- Well logs and uses and pumping rates of water supply wells within a three-mile radius of CCCI.

-- Locations of recharge/discharge areas affecting groundwater flow.

-- Locations of on-site buried containers and pipelines.

B. In accordance with 320 IAC 4.1-25-6(c), provide written documentation of access rights to:

-- Remove all clay cap obstructions.

-- Potential off-site areas for additional soil borings, monitoring wells, and piezometers.

-- Maintain cap on adjacent property, if necessary.

C. Provide a Waste Analysis of all on-site waste containers following the format included in Attachment A. Waste containers include, but are not limited to, tanks and drums. Analyze all waste containers remaining on-site as described in Attachment A.

-- Site Inventory

The submitted plan does not meet the requirements of 320 IAC 4.1-21-3 in that it does not provide an adequate inventory of the waste.

-- Waste Analysis Plan

The submitted plan does not meet the requirements of 320 IAC 4.1-21-3 in that it does not include sufficient detail on all potential hazardous wastes and containers to properly classify their waste streams.

-- Sample Planning

The submitted plan does not meet the requirements of 320 IAC 4.1-21-3 in that is does not detail how the representativeness of the samples are determined what the sample size is, how the sample is to be maintained, the frequency of sampling, etc.

-- Sample Collection

The submitted plan does not meet the requirements of 320 IAC 4.1-21-3 in that it does not include logbook maintenance, chain-of-custody procedures, etc., to provide sampling quality assurance.

-- Compatibility Field Testing Procedures

The submitted plan does not meet the requirements of 320 IAC 4.1-21-3 in that it does not include a narrative for the flammability test, suggests that cyanides and sulfide liquids are not hazardous waste generators below a pH of 12, and is general in its detail of redox (potentially explosive) reactions.

-- Specifications for Laboratory Services

The submitted plan does not meet the requirements of 320 IAC 4.1-21-3 in that it does not describe the methods of analysis, thereby leaving the resulting narrative insufficient. Sections or major portions of sections listed in the table of contents are missing.

-- Laboratory Reporting--QA/QC

The submitted plan does not meet the requirements of 320 IAC 4.1-21-3 in that the laboratory reporting is inadequate and the QA/QC is missing.

-- Groundwater Monitoring Procedure

The submitted plan does not meet the requirements of 320 IAC 4.1-20-1, 4.1-21-2 in that it is missing. It should detail sampling of monitoring wells.

-- Decontamination Procedures

The submitted plan does not meet the requirements of 320 IAC 4.1-21-3 in that it does not include the decontamination of the solidification and stabilization areas and the tanks and structures not identified.

D. The information related to the geologic and hydrogeologic conditions and characteristics at the site provided by CCCI in the closure plan is general in nature and not site specific. In accordance with 320 IAC 4.1-21-2 and 20-1, the IDEM requires CCCI to submit a detailed, site specific geologic and hydrogeologic evaluation of the CCCI Gary, Indiana, facility in order to assess the feasibility and compatibility of the proposed slurry wall design with the site, and to determine nature, rate, and extent of any contamination. Therefore, CCCI shall provide the IDEM with the following information:

1. A description of the regional geologic and hydrogeologic characteristics in the vicinity, including local stratigraphy, regional groundwater flow directions, and areas of groundwater discharge, and recharge.

2. An analysis of any topographic or geomorphic features that might influence the groundwater flow system beneath the site.

3. A classification and description of the hydrogeologic properties of all the hydrogeologic units found at the site down through the base of the clayey till aquitard, as described in Attachment A, part 1B, including:

   -- hydraulic conductivity and porosity;

   -- texture;

   -- uniformity, thickness, and lithology;

   -- an interpretation of hydraulic interconnections between each unit; and

   -- zones of significant fracturing (or channeling) in the unconsolidated clayey till aquitard.

4. An identification of:

   -- zones of higher permeability and lower permeability within the uppermost aquifer that might direct or restrict flow of contaminants;

   -- perched aquifers;

   -- the first saturated zone that may have a potential for migration of contaminants; and

   -- the thickness, horizontal continuity, and hydraulic conductivity of the clayey till aquitard.

-- Soil Sampling Plan

The submitted plan does not meet the requirements of 320 IAC 4.1-21-3 in that it does not provide sufficient description of the location of hazardous constituents in the soil on site.

5. Hydrogeologic maps (using the facility map as a base) that illustrate the extent (depth, thickness, lateral extent) of hydrogeologic units within the facility boundary, down through the base of the clayey till aquitard. At a minimum, these maps shall consist of:

   a. Two (2) Geologic cross-sections (one north to south, and one east to west);

   b. Two (2) Structural contour maps (one of the top of the uppermost aquifer unit, and one of the top of the clayey till unit);

   c. Two (2) Isopach maps (one showing the thickness of the uppermost aquifer unit, and one showing the thickness of the clayey till unit); and

   d. If zones of higher and lower permeability are noted on the boring logs, then additional individual structural and isopach (thickness) maps must be submitted for each zone.

6. A description of water levels that include:

   -- water level contour maps including flow net cross-sections to illustrate vertical gradients;

   -- monitoring well and piezometer hydrographs and interpretations of the flow system;

   -- an interpretation of changes in both vertical and horizontal hydraulic gradients, if necessary; and

   -- seasonal fluctuation.

7. A description of man-made influences that might affect the hydrogeology of the site, identifying known local water supply and production wells with an approximate schedule of pumping and pumping rates, and identification of all known man-made hydraulic structures, i.e., underground pipes, sewer lines, drainage tiles, fire hydrant lines, etc.

8. In order to evaluate the presence or absence, or extent and effects of groundwater contamination, CCCI shall install a groundwater monitoring system as required by [illegible] IAC 4.1-20-2 and 21-2.

9. The construction materials, design, installation, and development of all groundwater monitoring wells and piezometers shall be in accordance with the latest version of the Technical Enforcement Guidance Document (TEGD), specifically:

   a. The groundwater monitoring system will consist of monitoring wells in the uppermost or aquifer, and in each underlying aquifer which is hydraulically interconnected.

   b. Any wells or borings drilled into the clayey till aquitard shall be filled with grout upon removal to prevent drilling-induced communication with the uppermost aquifer.

   c. Both the upgradient and downgradient monitoring wells shall be installed within the area bounded by the proposed slurry wall to assess the nature of the groundwater and leachate. These wells shall also be used during post-closure to monitor, pump, and treat contaminated groundwater (if needed).

   d. All monitoring wells installed within the area bounded by the slurry wall shall have an outer protective casing with a locking cap.

   e. Piezometers and/or monitoring wells shall be installed outside of the area bounded by the slurry wall and are to be equidistant to interior piezometers and/or monitoring wells to measure static water levels and determine hydraulic gradient across the wall. These shall number no fewer than four pairs (four internal and four external), equally spaced around the perimeter of the wall.

   f. Additional upgradient and downgradient monitoring wells shall be installed outside of the area bounded by the slurry wall so as to completely characterize the nature, rate, extent, and concentration of hazardous waste or hazardous waste constituents migrating from CCCI. The extent of monitoring well placement shall not be limited to the facility boundary.

10. CCCI shall conduct an investigation to locate buried waste containers and buried pipelines beneath the facility. This investigation shall begin with a reconnaissance magnetic geophysical survey (e.g., gradiometer survey). This magnetic geophysical survey shall be used in conjunction with other geophysical methods (e.g., ground penetrating radar and/or electromagnetic induction). The size of

geophysical survey(s) sampling grid, equipment gain settings, depth of penetration, etc., shall be based on such factors as the suspected size, location (vertically and laterally), type, and the on- and off-site interferences. The geophysical survey assumptions, rationale behind the selection of the geophysical method used, the location, and the size of the survey grid shall be documented prior to the survey and will be included with the submitted final geophysical survey report.

The geophysical survey report shall include maps of the CCCI site that indicate any geophysical anomalies. These maps shall include map scale, north arrow, hazardous waste regulated units, numbered grid points that refer to original field data and have measured geophysical readings next to the grid points and the CCCI facility boundaries. In addition to the geophysical maps, the following information shall be included: original field data (e.g., general equipment set up, equipment settings, equipment type and manufacturer and model number, geophysical measurement readings relative to referenced grid locations and equipment setup and equipment settings and surface conditions, weather conditions), techniques (office and/or field) that were used to help reduce the effects of geophysical interferences, and sampling grid(s) used. The second phase shall include exploratory excavation to locate suspected buried objects. If these exploratory excavations reveal waste containers and/or pipelines, they must be sampled and analyzed as specified in Attachment A.

11. CCCI shall document soil characteristics at the site to determine the extent of contamination as required by 320 IAC 4.1-21-2 and 21-3. This information shall include, but not be limited to, the following information and the information requirements identified in Attachment A, part 1B:

    -- USDA soil classification (refer to the Soil Survey Staff 1962 (under revision). Soil Survey Manual, U.S. Department of Agriculture Handbook, 18, U.S. Government Printing Office, Washington, D.C., 503 pages);

    -- soil profile provided on at least two cross-sections, one north to south, and the other east to west;

    -- surface soil distribution;

    -- hydraulic conductivity (saturated and unsaturated);

    -- relative permeability;

-- bulk density;

-- porosity;

-- soil pH;

-- depth to potentiometric surface;

-- moisture content;

-- effect of stratification on unsaturated flow;

-- storage capacity;

-- soil mineralogical analysis;

-- vertical flow rate; and

-- Calcium Carbonate Equivalency.

In addition, the facility shall conduct an investigation of soil contamination at the site as required by 320 IAC 4.1-21-3. The investigation shall include the following:

-- description of contaminant and soil chemical properties within the contaminant source area. This includes contaminant solubility, speciation, absorption, leachability, exchange capacity, oxidation, and specific contaminant concentration. This information shall be provided in tabular form along with a contour map of concentration distribution for each contaminant;

-- assessment of soil contamination compatibility with the proposed slurry wall.

-- Soil sampling shall follow the plan outlined in Attachment A. Soil borings shall be continuous.

12. CCCI shall prepare and implement a written groundwater sampling and analysis plan as required by 320 IAC 4.1-20-3 and 21-2. The CCCI plan must include procedures and techniques for sample collection, sample preservation and shipment, analytical procedures, and chain-of-custody control. CCCI shall follow guidance set forth in Attachment A.

Information related to sampling and analysis of groundwater at CCCI shall include:

-- CCCI shall analyze for the constituents listed in

-- If initial groundwater analyses show that certain constituents have not been released, CCCI may petition the IDEM to approve a modified list of constituents for subsequent groundwater analyses;

-- The methodology for investigating the hydrostratigraphic units at the site, and the locations, depths, and construction specification for each monitoring well to be used in the sampling effort are to follow the current Technical Enforcement Guidance Document;

-- Sampling procedures for each parameter or constituent to be analyzed for are set forth in Attachment A.

-- CCCI shall evaluate the analytical results to establish the presence or absence of any plume (procedures set forth in the current TEGD) as required by 320 IAC 4.1-20-4 and 21-2.

After the above information has been gathered, the CCCI shall install additional wells (if needed) to fully delineate the extent of any plume. The investigation shall not be limited to the boundary of the facility.

CCCI shall establish that the slurry wall meets the requirements set forth in 320 IAC 4.1-21-2.

E. The slurry wall construction information submitted by CCCI is lacking in detail. Therefore, for IDEM to adequately assess the feasibility of installing a slurry wall for contaminant migration control at this site, the following information shall be provided.

-- The type of slurry wall, or combination of types, shall be specified.

-- The slurry wall shall be installed to meet a hydraulic conductivity of 1×10^{-7} cm/sec or less. Laboratory tests, using a sample of the wall material to be installed, shall be conducted using the most contaminated groundwater samples collected from the monitoring wells. Groundwater inside and outside of the proposed wall location shall be tested to determine the permeability of the proposed wall material.

-- The long-term compatibility determination shall be conducted by passing 20 pore volumes of leachate through the proposed wall material using the same apparatus and method used for the permeability test. This test shall end after 90 days, regardless of the volume of leachate passed

through the proposed wall material. Groundwater samples collected inside and outside of the proposed wall shall be used in this test. The reference standard for this test shall be determined by analyzing tap water, meeting drinking water standards, before and after it is passed through the wall material.

Results of the reference test and the leachate test shall be compared for statistically significant differences which indicate degredation of the wall, including physical, chemical, and permeability changes.

-- If the hydraulic conductivity of the aquitard determined in the site specific investigation is found to be greater than 1×10^{-7} cm/sec, the slurry wall shall not be installed and the site shall be closed according to the clean closure option.

-- Borings shall be made at 300-foot intervals along the perimeter of the slurry wall to a depth no less than ten feet to assure lateral continuity of the aquitard.

-- The type of slurry wall selected shall be based on the required permeability and hydraulic pressure across the wall, leachate characteristics, availability of backfill material, required wall strength, aquitard depth, and site terrain and characteristics.

-- Prior to construction of the slurry wall, materials and methods specifications shall be submitted to the IDEM. These specifications shall include, but are not limited to:

(1) Scope of work.

(2) Construction qualifications.

(3) Construction requirements of the trench and slurry wall--such as width and depth of trench, depth of aquitard being penetrated, depth of penetration, location, continuity, verticallity, and permeability of the completed wall, composition of the backfill, and connection to the cap.

(4) Slurry wall equipment--including equipment for slurry mixing, slurry supply to trench, slurry density control, trench excavation and aquitard key-in, and site cleanup.

For a soil bentonite wall, describe equipment for backfill mixing, backfill placement, and hauling of backfill.

For a cement bentonite wall, describe equipment for hauling of the spoils. Soil removed during excavation of the trench shall be tested and disposed of properly. Nonhazardous soil may remain on-site, inside the slurry wall.

(5) Slurry wall material standards maintained during construction.

For soil bentonite walls, the mixed backfill should be tested for slump, density, water content, shear strength, and grain size distribution.

For a cement bentonite wall, include standards for cement and cement storage, and the cement/water ratio to be maintained for the desired compressive strength.

(6) Performance Information--such as slurry mixing, trench wall stabilization, trench excavation, protective clay cap construction, site cleanup.

For a soil bentonite wall, include methods for backfill mixing and backfill replacement.

For a cement bentonite wall, describe the method for joining adjacent panels to ensure continuity of the wall.

Also, include acceptable methods for controlling problem areas such as slurry flocculation, loss of slurry in the excavation, maintenance of slurry density, and premature gelation of the slurry.

(7) Cleanup--including decontamination of equipment, which involves triple rinsing of equipment and proper disposal of the entire vehicle wash pad.

(8) Quality control and documentation--for a cement bentonite wall, include the manufacturer's certification of the cement, and testing of the cement/water ratio for each batch of mix.

(9) Drawings--showing any earth moving required before actual trench construction can begin, a plan view of the slurry trench with areas for slurry preparation equipment indicated, cross section of the trench to show depth and location of any utility or road crossings, and soil boring locations and depths.

-- Certification shall be provided by an independent registered professional engineer that the slurry wall is able to withstand the weight and vibrations created by the railroad along the southeast border of the slurry wall. The trafficability of the wall shall also be certified, accounting for any present and future use of the site.

F. In accordance with 320 IAC 4.1-25-6(c), CCCI shall install a final cover. The final cover design submitted by CCCI is acceptable, with the following modifications:

-- A 20 mil synthetic membrane shall be placed on top of the two-foot clay layer.

-- Cap material shall be compacted to at least 95 percent of the maximum Standard Proctor dry density, at a moisture content of zero to five percent greater than optimum, as determined by the Standard Proctor Compaction Test.

-- The fill shall be placed and compacted to six-inch lifts.

-- In-place density tests shall be performed at a frequency of four tests for every acre of compacted fill area, per six-inch lift.

-- A minimum of one foot of a material which promotes drainage, with a saturated hydraulic conductivity of at least 10^{-3} cm/sec, shall be placed on top of the synthetic liner.

-- After allowing for settling, the final grade of the cover shall be between two and five percent. The cap design submitted by CCCI includes two (2) ditches in the final cover. All ditches (such as along the Elgin, Joliet and Eastern Railroad tracks, and the unused railroad spur) shall be eliminated. The final cover shall be continuous, with no ditches, gullies, or channels.

-- The maximum erosion rate, calculated using the Universal Soil Loss Equation, shall not exceed two tons/acre-year.

-- The cap shall be sealed around any monitoring wells and piezometers which extend through the cap.

-- The soil stabilization plan included by CCCI shall contain the following modification:

Jar tests, laboratory-bench tests, and/or batch tests shall be performed to show the final product to be fully stabilized. All hazardous constituents contained in the final product must be shown to be non-leachable. The selection of the stabilizing materials to be tested will be based on the results of the soil sampling and analysis. Stabilization materials shall be tested for hazardous metals and organics prior to use.

-- The lime addition plan submitted by CCCI is approvable with the following modification:

Lime shall be added to the soil or waste to a final pH of six to eight. Lime addition requirements shall be based on $CaCO_3$ equivalency.

G. In accordance with 320 IAC 4.1-21-7, the post-closure care plan submitted by CCCI is approvable with the following modifications:

-- The inward hydraulic gradient across the slurry wall, as measured by the head drop across the wall, shall be no less than six (6) inches.

-- To maintain the inward hydraulic gradient across the wall, pumping of the groundwater may be necessary. Based on the hydrogeologic assessment of the site, it shall be determined if the groundwater will be controlled by means of groundwater pumping and/or a subsurface drainage system.

-- All groundwater collected shall be tested for hazardousness and disposed of properly.

-- To insure adequate vegetative growth, maintenance of the soil cap and prevention of damage to the cap's synthetic liner during the early phases of post-closure, inspections will be made on a monthly basis during the first two years, and after major storms. It is anticipated that after this two-year period, any unpredicted settlement will have taken place, an adequate vegetative cover will have been established and the inspection frequency can be decreased to quarterly.

-- Inspections shall include (but are not limited to) checking soil covers for:

  -- erosion;

  -- settlement/ponding;

  -- animal burrows; and

  -- exposure of the liner.

- The vegetation shall be inspected for:
  - bare areas;
  - erosion;
  - fertilizer needs;
  - brush and weed growth; and
- The condition of the fencing shall be inspected.
- Vegetative cover shall be mowed twice per year to a height of six inches.
- If significant changes in groundwater quality are detected through post-closure monitoring, CCCI shall initiate remedial action including, but not limited to:
  - locating and repairing any breaks in the wall; and
  - pumping and treating any contaminated groundwater which is outside the confines of the slurry wall.
- When not specifically stated otherwise, Post-closure care shall follow the requirements set forth in 320 IAC 4.1-20. Groundwater monitoring shall continue for thirty (30) years after the certification of closure has been received.

Section III.--Clean Closure Option

Provided the standards described for the slurry wall and cap closure option are not met, the facility shall be closed according to the following conditions:

-- Contamination shall be removed to background levels.

    -- For metals, background shall be determined by collecting five off-site, undisturbed sediment samples, following procedures outlined in Attachment A. Contamination levels shall not exceed three times standard deviation of the background. These samples shall be considered background for total metals contamination when the mean for the analyses of concern (metals) are within the normal distribution of samples identified as SED 1 and SED 2 (from Table 2 of the closure plan).

    -- For organics, background shall be below detection limits.

-- Excavated areas shall be filled with clean fill, meeting the background levels defined above.

-- The site shall be graded to a slope sufficient to promote run-off and prevent ponding. The site shall be seeded and a dense vegetative cover established.

-- As described in the introduction to these modifications, corrective action following clean closure may be required for off-site contamination attributed to CCCI.

-- When not specifically stated otherwise, clean closure shall follow the requirements set forth in 320 IAC 4.1-20. Groundwater monitoring shall continue for five (5) years after the certification of closure has been received.

Section IV.--Closure Certifications

Certification of On-Site Closure

In accordance with 320 IAC 4.1-21-6, CCCI shall provide a certification document to the IDEM and the U.S. EPA. This document shall contain a certification by the owner or operator and by an independent registered professional engineer verifying that all activities described in the closure plan were successfully completed and that this engineer shall oversee the testing and installation of the slurry wall and the installation of the final cap. This certification shall also describe any variances from the original closure plan.

Certification of Clean Closure

In accordance with 320 IAC 4.1-21-6, CCCI shall provide a certification document to the IDEM and the U.S. EPA. This document shall contain a certification by the owner or operator and by an independent registered professional engineer verifying that all activities described in the closure plan were successfully completed. This certification shall also describe any variances from the original closure plan.

Certification Reports

All reports for certification (such as integrity of the slurry wall, etc.) provided by a registered professional engineer must include a narrative description of how the decision was arrived at. Included with this narrative, the registered professional engineer shall include all data and calculations that outline the decision-making process.

Section V.--Financial Assurance for Closure and Post-Closure

Within thirty (30) days of receipt of this closure plan approval, Conservation Chemical of Illinois must provide a financial assurance mechanism for facility closure and post-closure care. Rule 320 IAC 4.1-22 details the various mechanisms available.

Section VI.--Liability Coverage

Provide documentation and endorsement or certification of compliance with applicable liability requirements for sudden accidental occurrences. Liability coverage must be maintained for sudden accidental occurrences in the amount of $1 million per occurrence with an annual aggregate of at least $2 million. Liability coverage may be demonstrated in one of three ways: (1) Endorsement or Certification, 320 IAC 4.1-22-24; (2) Financial Test for Liability Coverage, 320 IAC 4.1-22-24; or (3) Use of Multiple Insurance Mechanisms, 320 IAC 4.1-22-24. Liability coverage must be maintained until closure certifications are received by the Assistant Commissioner.

Section VII.--Health and Safety Plan/Emergency Contingency and Response Plan

It is imperative that this closure plan include both a detailed Health and Safety Plan (H&S) and an Emergency Contingency and Response Plan (ECRP). Such plans are included as Attachment B-1 and Attachment B-2, respectively.

These plans have previously been prepared by a U.S. EPA contractor as Chapter 6 and Chapter 7, respectively, of a document entitled "Site Action Plan Project to Remove Imminent Danger Wastes, Tank Emptying and Waste Disposal for Conservation Chemical Company of Illinois, Gary, Indiana" prepared by International Technology Corporation, dated March 16, 1987."

The above-referenced document was prepared for the cleanup of the various cyanide solutions, neutralized acid sludge material and chlorinated solvents that are presently at the facility. IDEM staff have decided to incorporate these plans, with modifications, as part of the closure plan and to encompass all hazardous waste and hazardous waste constituents that may be at the site. This decision is based on the uncertainty of exactly which wastes or tanks are being cleaned, the lack of information on the contents of every tank and drum on site and the fact that more contamination (i.e., drums) is being discovered by the current Emergency Response cleanup.

The contractor which is chosen to perform the cleanup activities related to this closure plan will be required to have a certified industrial hygienist review the H&S Plan and the ECRP before any cleanup activities are performed. The contractor should take special note in areas where the IDEM is to be kept informed of changes in these plans.

Attachment A

Attachment A

1A	Site Inventory
1B	Soil Stratigraphic Investigations--General Procedures
1C	Waste Analysis Plan
1C-1	Sample Planning
1C-2	Sample Collection
1C-3a	Compatibility Field Test--Example 1
1C-3b	Compatibility Field Test--Example 2
1C-4	Specification for Laboratory Services for CCCI
1C-5	Laboratory Reporting--QA/QC
1F	Groundwater Monitoring Requirements
2A	Decontamination
3A	Soil Sampling Plan

Attachment 1A

The on-site tank facility map provided, figure 4 of the May 23, 1986, closure submittal, details 65 identifiable structures by number. When the sphere, the tower, and the sump are added the total number detailed is 68. Although Tables 4-8 describe the contents of many of the tanks, the description does not provide sufficient information to review the purpose, history, or present status of many of the map detailed units. Example, what is the present status, condition, description, or contents of units 2, 9, 13, 14, 16, 26, 28, 30, 32, 33, 34, 35, 36, 38, 39, 44, 45, etc.? The report, page 12 of the closure plan, states that, "approximately 60 tanks are present on-site. . . . refer to the CCCI Part B Application, Section D."

Section D of the Part B application, received September 1986, on page D-6 lists 33 tanks, 50 tanks are listed on page D-8, and pages D-73 to 75 list 50 tanks. Additionally tanks 11 and 29, Table 6 of the closure document, were not sampled. Tank 40, Table 7, of the closure document was not sampled.

The interpretation of this information is perplexing and presents a series of questions in the review of the waste analysis plan as provided. CCCI shall provide a descriptive map and accompanying table or descriptive map and accompanying narrative of all contaminant units, tanks, drums, vessels, and other on-site structures. CCCI shall present a description of each unit described on the map. CCCI shall detail the present use of each unit or if it is empty its past history and present condition. CCCI shall provide a narrative for the discrepancies of maps previously provided and the final map describing structures that were not previously included in narrative or tables with the description of their respective contents.

Attachment 1B

Soil Stratigraphic Investigations--General Procedures

Introduction

Soil borings, material tests, and boring logs are some of the investigatory techniques necessary for definition of subsurface materials (U.S. EPA, September 1986). The following discussion will expand upon the geologic information requirements necessary to define the stratigraphy beneath a waste site. A detailed sediment sampling and description program determines the stratigraphy, which is the basis for all subsequent groundwater monitoring. If adequate understanding of the geology is not gained prior to installing and sampling monitoring wells, a large amount of money may be inappropriately spent or completely wasted.

The requirements have been designed for glacially-derived sediments but could be applied to any unconsolidated material. Since the glacial sedimentary record is a combination of depositional and erosional events, the requirements borrow descriptors from both the geologic and pedologic sciences.

The glacial depositional environment has four major components: outwash, ice-contact, lacustrine, and loess (Ashley et al, 1985). With multiple glacial advances, all four environments can be interwoven to create dramatic horizontal and vertical variability. Added to the complex sedimentation pattern, is the weathering and soil formation which occurs during interglacial periods. The following sediment description system is capable of recognizing both depositional and erosional events.

Specifications and procedures for monitoring well construction and installation shall be referenced from U.S. EPA RCRA Groundwater Monitoring Technical Enforcement Guidance Document (TEGD) (September 1986).

The information requirements will detail both field and laboratory methods.

Coring Requirements

CCCI shall obtain continuous core samples through the uppermost aquifer and not less than ten (10) feet into the underlying confining unit or bedrock. Deeper coring will be necessary when the confining unit is weathered (e.g., oxidized) and/or secondary porosity features (e.g., sand seams) are present. Any open holes made into the confining unit that will not be monitored must be immediately grouted to help insure that contamination is not introduced to a lower aquifer. Continuous sampling should be done for soil borings and the installation of groundwater monitoring wells and piezometers. However, in the case of a closely nested well cluster, only the deepest well or piezometer needs to be continously sampled. The other piezometer borings in this cluster can be drilled using wash rotary techniques after completion of the auger hole.

Descriptive Requirements

The description is a combination of both geological and soil sciences because both sedimentological and weathering properties are necessary to understand the geology and then the hydrology. A continuous field description determines the representativeness of the discrete laboratory analysis and in turn, the laboratory analysis determines the accuracy of the field description. The soil scientists have developed a good standardized descriptive system.

The primary reference for the soil descriptions is Soil Survey Staff, SCS, USDA (in preparation). Final Draft of the Revised U.S. Department of Agriculture Handbook 18, Chapter 3, U.S. Government Printing Office, Washington, D.C. Any sedimentological descriptors (e.g., cross bedding) not addressed by the soil science descriptors shall be included in the boring descriptions.

Unless noted otherwise, the following requirements pertain to all borings:

a. Depth: Depth should be recorded for both the interval described and the interval sampled for laboratory analysis. The laboratory analysis shall be performed on a small, discrete interval, not composited from the entire length of a unit.

b. Texture: field textural class determination shall be made using the USDA textural classification (Soil Survey Staff, in preparation). The primary classification is determined with only the less than 2 mm size fraction. A simplified version of the USDA textural triangle is referenced from Figure 1 of Gee and Bauder (1986). Grain size divisions shall be based on a modified form of the "Wentworth" grain size scale (see Table 1 below).

Table 1

Grain Size Scales

Grade Limits In Millimeters		Grade Name	
Lower Limit	Upper Limit		
256 and above		Boulders	
64	256	Cobbles	
16	64	Coarse	Pebbles*
4	16	Fine	
2	4	Granules	

Table 1 (cont'd)

Grain Size Scales

Grade Limits In Millimeters		Grade Name	
Lower Limit	Upper Limit		
1	2	Very Coarse	
0.5	1	Coarse	
0.25	0.5	Medium	Sand*
0.125	0.25	Fine	
0.062	0.125	Very Fine	
0.031	0.062	Very Coarse	
0.016	0.031	Coarse	
0.008	0.016	Medium	Silt*
0.004	0.008	Fine	
0.002	0.004	Very Fine	
Below 0.002	0.002	Clay	

(modified after the Americian Geological Institute, 1982 and Hallberg, 1978.)

* These subdivisions of sand and pebbles shall be used in Field Descriptions. Laboratory particle size analysis can include an analysis of subdivisions of silt and/or clay if these analyses could help determine the depositional and/or weathering environment and/or the contaminant attentuation ability of a sediment sample.

Field estimates shall be made of the percentage and size of coarse fragments (i.e., greater than 2 mm) in addition to the above primary textural classification. If required for correlation to earlier work or for engineering considerations, textural determinations could also be made using the Unified Soil Classification System.

c. Color: Record colors of both moist and dry specimens if possible, but always for moist conditions. Use color and number-letter notations from Munsell Soil Color Charts, i.e., yellowish-brown (10YR5/4). Record the color of mottles using the Munsell Soil Color notation and moisture state of sample when color is recorded. Mottles shall also be recorded for abundance (few, common, many), size (fine, medium, coarse), and contrast (faint, distinct, or prominent). (See Soil Survey Staff, in preparation.) The Munsell color reduces the subjectivity of the color description. Color helps determine organic content, degree of weathering, and internal drainage (Soil Survey Staff, 1975).

d. Reaction (effervescence): Test sediment with dilute (10 percent) cold HCl acid. Weathering zones have been linked to water/contaminant migration (Hendry et al, 1986).

e. Soil Structure: Describe natural "soil" units (peds) as to grade, size, and type. Without peds, the "soil" horizon can be single grained, if noncoherent, or massive, if coherent (see Soil Survey Staff, in preparation).

f. Horizon Designation: (See Soil Survey Staff, in preparation).

g. Consistence: Consistence is the cohesion, adhesion, and resistance of specimens to deformation and rupture. (See Soil Survey Staff, in preparation.)

h. Field Moisture: Record the field moisture condition of all samples and the elevation of first and any re-encountered water(s).

i. Boundary/Contact: Describe the thickness, nature, and if possible, the topography of the boundary/contact.

j. Sedimentary Structure: Describe the thickness, and if possible, orientation of any sedimentary features. The features (Tucker, 1982) can include:

(1) bedding/lamination;
(2) cross-stratification;
(3) sorting of grains;
(4) roundness of grains;
(5) deformation in bedding;
(6) bedding surface structures; and
(7) fossils/bioturbation.

An apparent lack of sedimentary structure, e.g., massive, is also important to note.

k. Zones of Secondary Porosity: Record all features and how they were recognized (e.g., oxidation rinds, carbonate coats, clay films, etc.), dimensions (width and length), frequency (quantity per unit area and distance between features), orientation (dip angles) and compass direction of the fracture planes and elevations. Record any other sources of secondary porosity (e.g., root channels, relic, or active), pores, seams or zones of coarser "soil" material (designate USDA textural triangle classification), and krotivinas (filled animal burrows). Representative field hydraulic conductivity tests should be conducted in zones of secondary porosity, as well as representative portions of each hydrostratigraphic unit.

l. Additional Features: Other features to be recorded are concretion (e.g., iron/manganese and/or carbonate concretions or accumulations), or surface features (e.g., clay films, organic, or carbonate coats). Record these features as detailed in Soil Survey Staff, in

m. Field Soil pH measurements: The glass (indicator) electrode paired with a calomel (reference) electrode type of pH meter is recommended for soil pH measurements (McLean, 1982). The information to be recorded for each soil pH measurement include:

(1) Date (month, day, year) and time of soil sampling and date (month, day, year) and time of soil pH measurement.

(2) Soil sampler's name and affiliation and soil pH measurement person's name and affiliation.

(3) Soil pH meter's manufacturer's name, model, and serial number.

(4) Expiration date(s) of pH standards and pH standards used.

(5) Type of soil pH measurements (e.g., pH in distilled water, pH in 0.01 M $CaCl_2$). Note: At a minimum, soil distilled water pH measurements shall be conducted.

(6) Depth (relative to the National Geodetic Vertical Datum) of pH measurement.

(7) Boring number (see "s" of this document: "Location" for requirements for locating and referencing boreholes).

(8) Field on-site (i.e., within the boundaries of the proposed slurry wall) soil pH measurements shall be conducted at six-inch sampling intervals down to ten (10) feet. After ten (10) feet of depth, the sampling interval for soil pH measurements can be increased to two feet if soil pH values are in the range of 6.0 to 8.0. However, if the soil pH measurements are above or below the pH range of 6.0 to 8.0, then the six-inch sampling intervals must be reinstated until four successive soil pH measurements are in the range of 6.0 to 8.0.

(9) Field off-site (i.e., outside the boundaries of the proposed slurry wall) soil pH measurements shall be made at one-foot sampling intervals down to ten (10) feet. After ten (10) feet of depth, the sampling interval for soil pH measurements can be increased to four feet if soil pH values are in the range of 6.0 to 8.0. However, if the soil pH measurements are above or below the pH range of 6.0 to 8.0, then the one-foot sampling interval must be reinstated until four successive soil pH measurements are in the range of 6.0 to 8.0.

(10) Field and/or laboratory soil pH measurements shall be conducted as soon as possible after obtaining the soil sample. Soil pH measurements will be made within 24 hours of obtaining sample. Soil pH measurements shall be accurate to 0.1 of a pH unit.

n. Core Recovery: Delineate the length or percent of core recovery and any methods used to improve the amount of core retrieved.

o. Blow Counts: If a driving mechanism (e.g., hammer) is used to advance the soil sampling coring device (e.g., split-spoon sampling), then a record shall be made of the drilling events.

p. Parent Material Designation/Geologic Interpretation: The interpretation could include geologic age, formation name, genetic interpretation, and/or weathering zone designation (Hallberg, 1978) (e.g., unleached, unoxidized Wisconsin loam till).

q. Graphic Log: Draw a strip chart marked in one foot or half meter intervals with symbols for lithology, sedimentary structure, and other important features. The graphic log provides a readily understandable picture of the sediment encountered in the borehole.

r. General Borehole Description: The general field description shall include hole name/number, date started and finished, geologist's/ geotechnical engineer's name and affiliation, driller's name and affiliation, advance rates, records of drilling difficulties, changes in drilling method or equipment, amounts and type(s) of any liquid used, casing/hole stability, weather conditions, deviations from drilling plan, depth and nature of any contamination encountered in the borehole, other narratives of geologic and drilling observations, drill rig type, bit/auger size, borehole diameter, and depth and reason for termination of borehole.

s. Location: The location of the borehole must be surveyed from some referenced datum point. The elevation of the ground surface (relative to the National Geodetic Vertical Datum) and the top of all well casings, both the riser pipe and protective casing, must be surveyed to an accuracy of one hundredth of a foot ($\pm$0.01 foot). The horizontal position must be surveyed to an accuracy of one foot ($\pm$1 foot).

The horizontal position of each borehole shall be located using the State Plane Coordinate System (coordinates for each borehole shall be provided) or a site grid coordinate system that can be easily translated into the State Plane Coordinate System (detailed instructions on how to accomplish this translation shall be provided). In addition, these boreholes and other investigations (e.g., surface water samples) shall be accurately (i.e., accuracy as defined above) located on a map.

The detailed survey provides an accurate map location, a unique well geolocator for in-house and nation-wide computer information systems, and three-demensional position for spatial interpretation.

t. Gamma Ray Log: Gamma ray logs shall be run on all monitoring wells and piezometers.

Laboratory Analysis

Laboratory analysis should be conducted on discrete, not composite, sediment samples. Laboratory analysis of samples shall include:

a. Particle size analysis: Specifically, this analysis should include each separate USDA textural class found within each hydrostratigraphic unit. For thick, consistent units, the spacing between analysis should be no more than ten (10) feet. For thin, inconsistent units and for confining and semi-confining layers, the spacing between analysis shall be no more than five feet.

   The particle size classes to be used are supplied in Table 1 of this attachment. The recommended particle size analysis method for the silt-clay fraction is the pipette method. Results of the sample textural analysis shall include: a cumulative weight percent grain size curve, location/boring number, depth range of sample, and USDA textural classification. It is important to note that the USDA classification uses only the less than 2 mm size fraction to obtain the textural name.

   Textural analysis can also be conducted according the Unified Soil Classification System if it is necessary to correlate back to older borings or define engineering properties, but the USDA textural classification will remain the primary stratigraphic tool.

b. Calcium Carbonate Equivalency Analysis

   Analysis shall be conducted on representative sediment portions of all off-site (i.e., not within the boundaries of the proposed slurry wall) hydrostratigraphic units. Analysis shall be conducted on each soil sample that has a different USDA textural classification and/or reaction to dilute cold ten (10) percent hydrochloric acid within each ten (10)-foot interval for each on-site (within the boundaries of the proposed slurry wall) soil boring. The following will serve as examples:

   Example A: A soil sample with a sand loam texture with a slight effervescent reaction to cold dilute ten (10) percent hydrochloric acid will be considered as a separate sample for analysis from a soil sample that has a sandy loam texture with strong effervescent.

   Example B: A soil sample with a loam texture with strong effervescent will be considered a separate sample for analysis from a soil sample that has a clay texture and strong effervescent.

Notes: Special attention shall be give to ensure this type of analysis is conducted on representative sediment samples from semi-confining and/or confining layers. A reference for an acceptable calcium carbonate analysis procedure is: Franzmeier, D.P., G.C. Steinhardt, J.R. Crum and L.D. Norton. 1977. Soil Characterization in Indiana: I. Field and Laboratory Procedures, Research Bulletin No. 943. Purdue University, Press, West Lafayette, Indana, 30 pages. Report the boring number/location, depth of sample, hydrostratigraphic unit designation, and results for each soil sample tested.

c. Cation Exchange Capacity:

Analysis of representative sediment samples shall be conducted on all off-site (i.e., not within the boundaries of the proposed slurry wall) hydrostratigraphic units. Analysis shall be conducted on sediment samples representative of each on-site (within the boundaries of the proposed slurry wall) aquifer and on sediment samples representative of each semi-confining and/or confining layer from each on-site soil boring. Report the boring number/location, depth range of samples, hydrostratigraphic unit designation, lab methods, and calcium carbonate analysis results for each sample tested.

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October 10, 1986

Ms. Sally K. Swanson, Chief
Enforcement Programs Unit No. 2
Hazardous Waste Enforcement Branch
U.S. EPA Region 5 (5HE-12)
230 S. Dearborn Street
Chicago, IL 60604

Re: Conservation Chemical Company of Illinois
Work Assignment 503

Dear Ms. Swanson:

PRC Environmental Management, Inc. is please to submit for your review and comment our draft report on the technical evaluation of the closure plan for Conservation Chemical Company of Illinois. Please return any comments to me so we may begin to prepare the final report.

If you have any questions please contact me.

Sincerely,

PRC Environmental Management, Inc.

David H. Homer, Ph.D.
Project Manager

DHH/mps

cc: Arlene Kaganove
Nancy Deck
Bruce Bakaysa (letter only)

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CONSERVATION CHEMICAL COMPANY OF ILLINOIS

CLOSURE PLAN REVIEW

TECHNICAL EVALUATION

DRAFT REPORT

Prepared for

U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Waste Programs Enforcement
Washington, D.C. 20460

Work Assignment No.	:	503
EPA Region	:	5
Site No.	:	N/A
Date Prepared	:	October 9, 1986
Contract No.	:	68-01-7037
PRC No.	:	15-5030-43
Prepared By	:	PRC Environmental Management, Inc.
Telephone No.	:	(312) 938-0300
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1.0 INTRODUCTION

PRC Environmental Management, Inc., received a work assignment from the U.S. Environmental Protection Agency (U.S.EPA) Region 5 to provide technical support in the review of the Closure Plan submitted by Conservation Chemical Company of Illinois (CCCI), Gary Indiana. PRC reviewed the Closure Plan to determine its adequacy and completeness.

The completeness review was conducted in June 1986 and the completeness deficiencies were submitted to U.S.EPA on June 11,1986. CCCI submitted their response of the completeness deficiencies to U.S. EPA on July 28, 1986. As directed by U.S. EPA, PRC Started the detailed technical evaluation of the CCCI's Closure Plan in September 1986. This report will provides the description of the closure plan and the technical deficiencies identified by PRC.

Reference material used during the review included 40 CFR 265 and "Guidance Document for Estimating Closure and Post-Closure Costs" (EPA, October 1984).

2.0 CLOSURE PLAN DESCRIPTION

2.1 SITE HISTORY AND CONDITION

Prior to 1967, the site was owned and operated by Berry Oil Company as a petroleum oil refinery. CCCI began its operation at the site in April 1967. From that time, CCCI operated a pickling liquor recycling operation at the site until 1975. The pickle liquor recycling operation was resumed at the site in 1980. CCCI ceased operation at the site in December 1985.

Currently, the hazardous wastes are stored in above ground storage tanks, containers, and surface impoundments.

There are numerous above ground storage tanks which contain various wastes; these include waste pickle liquor, ferric chloride, neutralized acid sludge, cyanide solution, chlorinated solvents, and silica tetrachloride. The contents of all the drums on site are unknown but they are believed to contain solvents and cyanide wastes. Three surface impoundments contain primarily pickle liquor treatment

residues, oily residues, and water. The other impoundment contains PCB - contaminated oil and water.

The site has several ground-water monitoring wells at the perimeter of the site. Based on analytical results from ground-water samples the ground water under the site is known to be contaminated.

2.2 PROPOSED CLOSURE ACTIVITIES

CCCI's closure plan proposes the following closure activities for the site.

- o Tanks
  - remove waste from the tanks
  - treat waste on site if feasible, treat cyanide wastes with hypochlorite, treat PCB wastes, neutralize pickle liquor wastes, stabilize treatment sludges with lime kiln dust or portland cement
  - dispose treatment residues off-site
  - decontaminate the empty tanks
- o Drums
  - determine the contents
  - dispose off-site at appropriate facility
- o Surface Impoundments
  - cap with multilayer earth cap
  - construct a slurry wall around the facility to prevent off-site migration of contaminated ground water

3.0 TECHNICAL DEFICIENCIES

The technical deficiencies identified by PRC are listed under the section and headings used in the CCCI's Closure Plan.

3.1 WASTE CHARACTERIZATION (Section 4.2.1.1)

- When the closure plan was prepared, results of samples from tanks containing cyanide and metal hydroxide sludges were not available. If those sampling results are now available, they should be incorporated into the revised closure plan.

3.2 NEUTRAL ACID SLUDGE - DISPOSAL (Section 4.2.2)

- The plan does not specify the method to be used for cutting the tank wall or appropriate safety precautions to be used.

- CCCI proposed to use lime kiln dust to solidify the neutralized acid sludge in lined sludge boxes. However, CCCI did not provide any information on the material of liner and how to keep the integrity of the liner during mixing.

- CCCI proposes to stabilize neutralized acid sludge on-site with Type C flyash, lime kiln dust and/or portland cement. However, CCCI did not include the detailed information regarding the stabilization process or the disposal method. This information should include: the proposed ratio of acid sludge to flyash, lime kiln dust and/or the portland cement; how and where to mix those materials; what kind of test will be conducted to determine if it is feasible to stabilize the sludge; and how to dispose the stabilized material on site.

3.3 OIL, PCBs AND WATER - DISPOSAL (Section 4.2.3)

- According to Table 5 of the closure plan, Tanks 19 and 22 contain 637,000 gallons of PCB-contaminated materials. This quantity will fill 106 tankers each with a 6000-gallon capacity. The plan does not include detailed procedures on transferring the stored materials to the tankers and managing the tankers to prevent spills.

- The plan does not specify the criteria CCCI used to determine that the PCB-material is treatable.

- The plan assumes that 80 percent of the PCB contaminants are treatable. However, if the PCB contaminants are not treatable, then incineration is the only disposal alternative. Therefore, the cost estimate should also reflect the contingency of incineration as the sole alternative.

- The plan does not indicate whether Disposal Systems, Inc.'s portable treatment unit has the required permits or approvals to operate in the State of Indiana and Region 5.

- The plan does not describe the disposal procedures for treated waste oil and water.

3.4 CYANIDE SOLUTION - DISPOSAL (Section 4.2.4)

- CCCI proposes to treat the cyanide waste with hypochlorite. Therefore, the heading for this section should be "TREATMENT".

- It is not clear how many tanks are used to store the cyanide waste. The plan states that the liquid cyanide wastes are stored in 12 tanks. However, the Emergency Act Plan states that the wastes are stored in 13 tanks, while Table 6 of the closure plan shows 16 tanks.

- The plan does not specify the final cyanide concentration level of the cyanide waste after treatment.

- The plan does not specify how CCCI will dispose of the treated cyanide waste.

- The plan does not specify the criteria CCCI will use to determine which cyanide waste is untreatable.

- The closure plan cost estimate should also reflect the contingency of the cyanide waste being untreatable on site.

3.5 SILICA TETRACHLORIDE - DISPOSAL (Section 4.2.6)

- The plan states that special care will be necessary in handling the silica tetrachloride. However, CCCI did not specify the special care to be taken during the transfer operations.

3.6 PICKLE LIQUOR AND PROCESS PRODUCTS - DISPOSAL (Section 4.2.7)

- It is not clear what materials are stored in Tanks 40 and 41. The text of the plan states approximately 17,000 gallons of rain water and process acid are stored in Tanks 40 and 41. However, Table 7 of the plan shows that pickle liquor or process acid is stored in Tanks 40 and 41.

- It is not clear what material Tank 42 contains. The plan states that Tank 42 contains pickle liquor. However, Table 7 shows that tank 42 contains 2,500 gallons of silica tetrachloride (IT Corporation, Draft Sampling Plan).

- The plan indicates that Tanks 50 and 51 contain approximately 1,400 gallons of pickle liquor. However, those two tanks are not included in the Table 7.

3.7 DRUMS - DISPOSAL (Section 4.2.8)

- The cost estimate for drum disposal is not included in the Closure Plan.

- This subsection should be separate from the Tank Storage section or the section should be retitled.

3.8 DECONTAMINATION PROCEDURES (Section 4.2.9)

- The plan does not provide the criteria to determine "how clean is clean" for all the storage tanks after the decontamination process.

3.9 EARTHEN BASINS - CONSTRUCTION CONSIDERATIONS (Section 4.3.1.1)

- The plan does not specify how and where to mix the lime and the contaminated waste or soil, and what safety precautions will be taken.

- CCCI proposes to use fill material for the clay cap that has a minimum particle size of 3 inches. This is grossly inappropriate for a cap designed to keep water from infiltrating into the surface impoundments.

- Although the clay cap is depicted in Figure 10 of the closure plan, the closure plan does not provide a detailed description of the clay cap (the thickness of the clay material, and the slope of the final cap, among other details).

- CCCI proposed to close four basins at the site. However, detailed capping procedures for those basins are not provided. Therefore, it is not known that the capping procedures for the basins at Tanks 19 and 22 are the same as those for the pie-shaped and off-site basins.

- The plan does not provide information on the permeability of the final clay cap and how this will be verified.

- Specifications for the stabilization material are not given.

- The plan does not specify the material to be used for constructing the slurry wall.

- CCCI proposes to cap the basins with 2 feet of clay, 6 inches of sand, and 6 inches of topsoil. However, those layers are not thick

enough to withstand the freeze-thaw actions that will occur at the site. CCCI should refer to U.S. EPA's guidance manual "Evaluation Cover Systems for Solid and Hazardous Waste" SW-867.

3.10 SCHEDULE OF IMPLEMENTATION (Section 4.5)

- The plan provides a list of the closure activities and their sequence. However, the time for each activity is not provided. Also, no start date is given.

- It is not clear how long it will take to complete closure activities. CCCI stated in the letter to U.S.EPA, dated July 28, 1986, that the final closure will be completed in 1989. However, the plan estimates that the duration of closure activities will be 180 days.

3.11 CLOSURE PLAN COST ESTIMATE (Section 6.1)

- In general, the plan does not provide a detailed cost estimate. More specifically, the plan does not include the unit cost for equipment, the distance for transportation, the hourly rate for the personnel, the estimated manhours for each activity, or the unit cost for disposal at each proposed disposal facility.

- As mentioned in Section 3.9 above, the thickness of the capping material proposed by CCCI does not meet the recommended thickness. Therefore, the estimated cost associated with the capping material is low.

- The plan does not indicate the average depth or materials of the slurry wall; therefore, it is impossible to evaluate the estimated cost for the slurry wall.

3.12 POST CLOSURE PLAN (Section 6.2)

- CCCI proposes to get a wavier from U.S. EPA to reduce the quarterly ground-water monitoring to yearly for years 2 to 30. The

cost estimate for ground-water monitoring is based on that assumption. However, the plan does not include an alternate cost estimate in case U.S. EPA does not grant the wavier.

4.0 CONCLUSION

In general, the closure plan presented the conceptual approach to close the site. However, detailed technical information is not included in the text of the closure plan. These deficiencies are identified in Section 3.0 of this report.

Similarly, the cost estimates only provide general summaries of the closure costs. Detailed cost breakdowns and assumptions were not included in the closure plan. Also, CCCI's closure costs are about $1.2 million less than the closure costs estimated by U.S.EPA's contractor (Roy F. Weston).

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June 11, 1986

Ms. Sally Swanson
Hazardous Waste Enforcement Branch
U.S. EPA Region 5 HW-12
230 S. Dearborn Street
Chicago, IL 60604

Subject: Letter Report - Conservation Chemical Co. of Illinois Closure and Post-Closure Plan Completeness Review

Dear Ms. Swanson:

PRC Environmental Management, Inc. (PRC) reviewed the closure and post-closure plans for Conservation Chemical Co. of Illinois, Gary, Indiana site. The plan, dated May 23, 1986, was prepared by ATEC Associates, Inc., Griffith, Indiana. According to the amended work plan, the first task in PRC's review process was to determine if the closure and post-closure plans are complete in accordance with the requirements of 40CFR 265. This letter report presents the findings of the completeness review. Completeness deficiencies are listed below:

- The closure plan does not provide an estimate of the expected year of closure - it states that the year of closure is currently unknown [40CFR 265.112 (a)(3)].

- The closure plan mentions that changes to the plan or descriptions of the procedures to be used for closure are dependent on additional information. The plan does not address how the plan will be amended to address these changes [40CFR 265.112 (b)].

- The post-closure plan does not describe the frequency of maintenance activities during the post-closure care period [40CFR 265.118 (a)(2)].

- The post-closure plan does not identify a facility contact (person or office) for the life of the post-closure care period [40CFR 265.118 (a)(3)].

- The closure and post-closure plans do not describe the procedures Conservation Chemical Co. will follow to notify the local land authority of the information required in 40CFR 265.119.

- The post-closure plan does not describe how Conservation Chemical Co. will limit access to the surface impoundments during the post-closure care period [40CFR 265.228 (c) and 265.310 (b)].

As stated in the work plan, PRC will continue, this work assignment by reviewing the closure and post-closure plan for this technical adequacy.

If you have any questions please call me.

Sincerely,

PRC Environmental Management, Inc.

David H. Homer, Ph.D
Project Manager

DHH/mps

cc: Jonathan McPhee, U.S. EPA Region 5
Nancy Deck

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December 11, 1986

Ms. Sally K. Swanson, Chief
Enforcement Programs Unit No. 2
Hazardous Waste Enforcement Branch
U.S. EPA Region 5 (5HE-12)
230 S. Dearborn Street
Chicago, IL 60604

Re: Conservation Chemical Company of Illinois
Work Assignment No. 503

Dear Ms. Swanson:

PRC Environmental Management, Inc. is please to submit for your review and comment our final report on the technical evaluation of the closure plan for Conservation Chemical Company of Illinois.

If you have any questions please contact me.

Sincerely,

PRC Environmental Management, Inc.

David H. Homer, Ph.D.
Project Manager

DHH/klb

cc: Arlene Kaganove
Nancy Deck
Bruce Bakaysa (letter only)

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CONSERVATION CHEMICAL COMPANY OF ILLINOIS CLOSURE PLAN REVIEW TECHNICAL EVALUATION

FINAL REPORT

Prepared for

U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Waste Programs Enforcement
Washington, D.C. 20460

Work Assignment No.	:	503
EPA Region	:	5
Site No.	:	N/A
Date Prepared	:	December 11, 1986
Contract No.	:	68-01-7037
PRC No.	:	15-5030-43
Prepared By	:	PRC Environmental Management, Inc.
Telephone No.	:	(312) 938-0300
EPA Primary Contact	:	Sally K. Swanson
Telephone No.	:	(312) 886-4454

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  - determine the contents
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3.3 OIL, PCBs AND WATER - DISPOSAL (Section 4.2.3)

- According to Table 5 of the closure plan, Tanks 19 and 22 contain 637,000 gallons of PCB-contaminated materials. This quantity will fill 106 tankers each with a 6000-gallon capacity. The plan does not include detailed procedures on transferring the stored materials to the tankers and managing the tankers to prevent spills.

- The plan does not specify the criteria CCCI used to determine that the PCB-material is treatable.

- The plan assumes that 80 percent of the PCB contaminants are treatable. However, if the PCB contaminants are not treatable, then incineration is the only disposal alternative. Therefore, the cost estimate should also reflect the contingency of incineration as the sole alternative.

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3.4 CYANIDE SOLUTION - DISPOSAL (Section 4.2.4)

- CCCI proposes to treat the cyanide waste with hypochlorite. Therefore, the heading for this section should be "TREATMENT".

- It is not clear how many tanks are used to store the cyanide waste. The plan states that the liquid cyanide wastes are stored in 12 tanks. However, the Emergency Act Plan states that the wastes are stored in 13 tanks, while Table 6 of the closure plan shows 16 tanks.

- The plan does not specify the final cyanide concentration level of the cyanide waste after treatment.

- The plan does not specify whether CCCI will dispose of the treated cyanide waste on-site or off-site. If on-site, CCCI should specify the disposal location and procedures.

- The plan does not specify the criteria CCCI will use to determine which cyanide waste is untreatable.

- The closure plan cost estimate should also reflect the contingency of the cyanide waste being untreatable on site.

3.5 SILICA TETRACHLORIDE - DISPOSAL (Section 4.2.6)

- The plan states that special care will be necessary in handling the silica tetrachloride. However, CCCI did not specify the special care to be taken during the transfer operations.

3.6 PICKLE LIQUOR AND PROCESS PRODUCTS - DISPOSAL (Section 4.2.7)

- It is not clear what materials are stored in Tanks 40 and 41. The text of the plan states approximately 17,000 gallons of rain water and process acid are stored in Tanks 40 and 41. However, Table 7 of the plan shows that pickle liquor or process acid is stored in Tanks 40 and 41.

- It is not clear what material Tank 42 contains. The plan states that Tank 42 contains pickle liquor. However, Table 7 shows that tank 42 contains 2,500 gallons of silica tetrachloride (IT Corporation, Draft Sampling Plan).

- The plan indicates that Tanks 50 and 51 contain approximately 1,400 gallons of pickle liquor. However, those two tanks are not included in the Table 7.

3.7 DRUMS - DISPOSAL (Section 4.2.8)

- The cost estimate for drum disposal is not included in the Closure Plan.

- This subsection should be separate from the Tank Storage section or the section should be retitled.

- The plan states that approximately 154 drums remain at the site and provides waste analyses for 15 drums. However, the plan does not provide procedures and analytical methods to determine the contents of the remaining 139 drums.

3.8 DECONTAMINATION PROCEDURES (Section 4.2.9)

- The plan does not provide the clean-up standards to be applied to all the storage tanks after the decontamination process to verify that all hazardous wastes have been removed.

3.9 EARTHEN BASINS - CONSTRUCTION CONSIDERATIONS (Section 4.3.1.1)

- The plan does not specify how and where to mix the lime and the contaminated waste or soil, and what safety precautions will be taken.

- CCCI proposes to use fill material for the clay cap that has a minimum particle size of 3 inches. This is grossly inappropriate for a cap designed to keep water from infiltrating into the surface impoundments.

- Although the clay cap is depicted in Figure 10 of the closure plan, the closure plan does not provide a detailed description or drawing of the clay cap (the thickness of the clay material, and the slope of the final cap, among other details).

- CCCI proposed to close four basins at the site. However, detailed capping procedures for those basins are not provided. Therefore, it is not known that the capping procedures for the basins at Tanks 19 and 22 are the same as those for the pie-shaped and off-site basins.

- The plan does not provide information on the permeability of the final clay cap and how this will be verified.

- Specifications for the stabilization material are not given.

- The plan does not specify the material to be used for constructing the slurry wall.

- The plan does not identify the geologic formation that the slurry walls will be tied to. Boring logs indicate the presence of a 40-foot-thick sand layer above the confining clay layer. It will be impractical, if not impossible, to install a slurry wall to this depth in the sand formation.

- CCCI proposes to cap the basins with 2 feet of clay, 6 inches of sand, and 6 inches of topsoil. However, those layers are not thick enough to withstand the freeze-thaw actions that will occur at the site. CCCI should refer to U.S. EPA's guidance manual "Evaluation Cover Systems for Solid and Hazardous Waste" SW-867.

3.10 SCHEDULE OF IMPLEMENTATION (Section 4.5)

- The plan provides a list of the closure activities and their sequence. However, the time for each activity is not provided. Also, no start date is given.

- It is not clear how long it will take to complete closure activities. CCCI stated in the letter to U.S.EPA, dated July 28, 1986, that the final closure will be completed in 1989. However, the plan estimates that the duration of closure activities will be 180 days.

3.11 CLOSURE PLAN COST ESTIMATE (Section 6.1)

- In general, the plan does not provide a detailed cost estimate. More specifically, the plan does not include the unit cost for equipment, the distance for transportation, the hourly rate for the personnel, the estimated manhours for each activity, or the unit cost for disposal at each proposed disposal facility.

- As mentioned in Section 3.9 above, the thickness of the capping material proposed by CCCI does not meet the recommended thickness. Therefore, the estimated cost associated with the capping material is low.

- The plan does not indicate the average depth or materials of the slurry wall; therefore, it is impossible to evaluate the estimated cost for the slurry wall.

- The plan does not provide the cost estimate for the disposal of cyanide and PCB's oil waste off-site, if they are not treatable on-site.

3.12 POST CLOSURE PLAN (Section 6.2)

- CCCI proposes to get a wavier from U.S. EPA to reduce the quarterly ground-water monitoring to yearly for years 2 to 30. The cost estimate for ground-water monitoring is based on that assumption. However, the plan does not include an alternate cost estimate in case U.S. EPA does not grant the wavier.

- CCCI assumed that U.S. EPA wells C3 and C4 may be used for post closure ground-water monitoring. However, the post closure plan lacks contingencies for additional monitoring wells in case CCCI is not allowed to use these two wells.

4.0 CONCLUSION

In general, the closure plan presented the conceptual approach to close the site. However, detailed technical information is not included in the text of the closure plan. These deficiencies are identified in Section 3.0 of this report.

Similarly, the cost estimates only provide general summaries of the closure costs. Detailed cost breakdowns and assumptions were not included in the closure plan. Also, CCCI's closure costs are about $1.2 million less than the closure costs estimated by U.S.EPA's contractor (Roy F. Weston).

PRC Engineering

East Wacker Drive
[illegible], IL 60601
[illegible]3-0300
[illegible]910-2215112
[illegible]ONTOWENG

prc
Planning Research Corporation

October 17, 1986

TO: All Primary Contacts

FROM: PRC Engineering

RE: MONTHLY STATUS REPORTS

For each asterisked work assignment listed on the "EPA Project Status as of September 1986" form, please complete a close-out form and an appraisal form and submit to your regional contact. These work assignments did not carry into the contract option year (October 1, 1986 through September 30, 1987) and therefore must be formally closed out.

Please see your regional contact for copies of forms or to discuss procedures.

EPA PROJECT STATUS as of SEPTEMBER 1986

16 Oct 86

WA#	SITE NAME	ST	REG #	C / R	<--- SEPTEMBER ---> TOTAL HOURS	TOTAL DOLLARS	<--- CUMULATIVE ---> HOURS	DOLLARS	<---- BUDGET ----> HOURS	DOLLARS	<- % EXPENDED> HOURS	DOLLARS	
102	Paxton Landfill Corp	IL	5	R	0	0.00	22	779.09	0	0.00			*
226	Paxton Landfill	IL	5	R	2	79.18	228	8,058.38	300	11,324.00	76.0%	71.2%	
333	National Coatings	IL	5	R	1	39.59	26	986.14	32	1,212.00	81.3%	81.4%	
336	National Coatings	IL	5	R	0	0.00	0	0.00	0	0.00			
337	Aero Plating	IL	5	R	0	0.00	24	928.66	24	940.00	100.0%	98.8%	*
435	CWM Vickery	IL	5	R	0	0.00	22	924.49	22	925.00	100.0%	99.9%	
437	US Ecology - Sheffield	IL	5	R	81	1,852.75	410	12,553.98	750	39,399.00	54.7%	31.9%	
484	Barry Surplus Sales	MI	5	R	0	0.00	15	592.38	15	592.00	100.0%	100.1%	
485	Citizens Gas & Coke Utility	IN	5	R	9	694.44	447	18,857.63	378	19,183.00	118.3%	98.3%	*
486	Citizens Gas & Coke Utility	IN	5	R	4	202.80	128	7,694.95	123	16,862.00	104.1%	45.6%	
503	Conservation Chemical	IN	5	R	25	833.85	113	3,975.97	132	5,827.00	85.6%	68.2%	
507	LOIS Inspections		5	R	40	2,080.91	2,273	88,972.24	2,389	94,452.00	95.1%	94.2%	*
522	Koppers - Carbondale	IL	5	R	116	4,073.25	212	7,899.61	1,150	50,845.00	18.4%	15.5%	
531	Michigan Waste Systems	MI	5	R	0	28.18	418	16,007.05	350	15,550.00	119.4%	102.9%	*
532	HW Data Mgmt System		5	R	264	6,095.21	491	12,967.81	1,200	54,437.00	40.9%	23.8%	
533	MI Ground Water Data	MI	5	R	19	844.09	210	10,754.79	1,530	89,924.00	13.7%	12.0%	
534	WI Data Mgmt Support	WI	5	R	0	0.00	1	25.80	1	26.00	100.0%	99.2%	
535	Clow Water Supply Plant	OH	5	R	0	0.00	64	2,639.05	64	2,639.00	100.0%	100.0%	
547	Safety-Kleen	OH	5	R	72	1,725.87	507	15,523.46	500	25,452.00	101.4%	61.0%	
554	Chem-Met & Michigan Disposal	MI	5	R	0	0.00	8	248.10	8	248.00	100.0%	100.0%	
564	Addison Products Company	MI	5	R	0	0.00	21	786.73	19	690.00	110.5%	114.0%	
577	Diamond Sparkler	OH	5	R	0	0.00	51	1,376.32	80	2,233.00	63.8%	61.6%	*
582	Clayton Chemical	IL	5	R	0	0.00	20	807.74	40	1,638.00	50.0%	49.3%	*
585	Indiana Woodtreating	IN	5	R	0	2,109.80	29	19,035.12	25	21,926.00	114.0%	86.8%	
586	Uniroyal/Eau Claire	IL	5	R	44	1,799.72	674	33,114.33	790	39,178.00	85.3%	84.5%	*
587	Waste as Fuel		5	R	99	2,559.08	293	8,365.59	480	15,501.00	61.0%	54.0%	
588	Groundwater Monitoring	OH	5	R	326	16,068.76	1,006	46,334.95	1,060	53,400.00	94.9%	86.8%	
607	Brighton Landfill	IL	5	R	0	36.23	66	2,032.75	60	5,791.00	110.0%	35.1%	
618	Keystone Steel and Wire	IL	5	R	0	3,389.32	4	6,751.42	10	7,855.00	40.0%	86.0%	
620	Continental Steel	IN	5	R	20	1,373.30	225	10,712.98	500	16,860.00	45.0%	63.5%	
625	Evergreen Langfill	OH	5	R	0	0.00	36	1,488.58	40	1,840.00	90.0%	80.9%	*
626	Hilton-Davis Chemical Co	OH	5	R	0	0.00	1	46.54	370	15,090.00	0.3%	0.3%	
	TOTAL				1,122	45,886.34	8,045	341,242.64	12,442	611,839.00	64.7%	55.8%	

CONSERVATION CHEMICAL COMPANY OF ILLINOIS

Region : 5
WA No. : 503
Report No. : 4
For : September 1986
CERCLA :
RCRA : X

EPA Primary Contact: Sally Swanson 312/886-4454
PRC Project Manager: David Homer 312/938-0300

Project Status

Reviewed Conservation Chemical Company of Illinois' closure plan for technical adequacy in accordance with 40 CFR 265 requirements. Technical adequacy review will be completed within 30 days of receipt.

Next Activities

Submit a letter report on PRC's technical review of CCCI. Prepare a revised work plan for the TES 2 option year.

Schedule Problems

None.

CONSERVATION CHEMICAL COMPANY OF ILLINOIS

Region : 5
WA No. : 503
Report No. : 4
For : September 1986
CERCLA :
RCRA : X

EPA Primary Contact: Sally Swanson 312/886-4454
PRC Project Manager: David Homer 312/938-0300

Project Status

Reviewed Conservation Chemical Company of Illinois' closure plan for technical adequacy in accordance with 40 CFR 265 requirements. Technical adequacy review will be completed within 30 days of receipt.

Next Activities

Submit a letter report on PRC's technical review of CCCI. Prepare a revised work plan for the TES 2 option year.

Schedule Problems

None.

From: JOHN LUKSIS
To: CAPIRO-MIRTHA
Date: Monday, August 8, 1994 1:50 pm
Subject: Conservation Chemical Company of Illinois and Norman Hjersted

I reviewed the financial disclosure requirements in the consent decree and the information that was recently sent to us satisfying this requirement. I believe we still need the following information: 1. We received a sheet identifying all the bank account locations of Conservation Chemical Company of Illinois, Conservation Chemical Company, Midland Resources Inc., and Norman Hjersted. However, this sheet did not identify the amount in each bank accoount. 2. We received summaries identifying the book value of assets for Conservation Chemical Company of Illinois, Conservation Chemical Company, and Midland Resources Inc. However, the consent decree required the estimated market value of assets, not book value.

CC: Kawakami-Cynthia

CERTIFICATE OF INSURANCE

SET TAB STOPS AT ARROWS

ISSUE DATE (MM/DD/YY): 1-7-85

PRODUCER

Marsh & McLennan, Inc.
127 West 10th Street
Kansas City, Missouri 64105

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

COMPANIES AFFORDING COVERAGE

COMPANY LETTER A	IND 040 868 992 Evanston Insurance Company
COMPANY LETTER B	
COMPANY LETTER C	
COMPANY LETTER D	
COMPANY LETTER E	

RECEIVED
JAN 23 1985
WMD-RAIU
EPA, REGION V

INSURED

Conservation Chemical Company, Conservation Chemical Co. of Ill., Midland Resources, Inc. and Midland Trucking Company
5201 Johnson Drive, Suite 400
Mission, Kansas 66205

COVERAGES

THIS IS TO CERTIFY THAT POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS, AND CONDITIONS OF SUCH POLICIES.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIABILITY LIMITS IN THOUSANDS	EACH OCCURRENCE	AGGREGATE
A	GENERAL LIABILITY	SP 10898	1-1-85	1-1-86			
	[ ] COMPREHENSIVE FORM				BODILY INJURY	$	$
	[ ] PREMISES/OPERATIONS				PROPERTY DAMAGE	$	$
	[ ] UNDERGROUND EXPLOSION & COLLAPSE HAZARD				BI & PD COMBINED	$ *	$ *
	[x] PRODUCTS/COMPLETED OPERATIONS						
	[x] CONTRACTUAL Limited				PERSONAL INJURY		$
	[ ] INDEPENDENT CONTRACTORS						
	[ ] BROAD FORM PROPERTY DAMAGE						
	[ ] PERSONAL INJURY						
	AUTOMOBILE LIABILITY				BODILY INJURY (PER PERSON)	$	
	[ ] ANY AUTO				BODILY INJURY (PER ACCIDENT)	$	
	[ ] ALL OWNED AUTOS (PRIV. PASS.)				PROPERTY DAMAGE	$	
	[ ] ALL OWNED AUTOS (OTHER THAN PRIV. PASS.)				BI & PD COMBINED	$	
	[ ] HIRED AUTOS						
	[ ] NON-OWNED AUTOS						
	[ ] GARAGE LIABILITY						
	EXCESS LIABILITY				BI & PD COMBINED	$	$
	[ ] UMBRELLA FORM						
	[ ] OTHER THAN UMBRELLA FORM						
	WORKERS' COMPENSATION AND EMPLOYERS' LIABILITY				STATUTORY		
					$	(EACH ACCIDENT)	
					$	(DISEASE-POLICY LIMIT)	
					$	(DISEASE-EACH EMPLOYEE)	
	OTHER						

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

*See Attached Hazardous Waste Facility Endorsement of Liability Insurance

CERTIFICATE HOLDER

Regional Adminstrator
U.S. EPA Region V
Attn: RCRA Financial Requirement
P.O. Box A3587
Chicago, Illinois 60690-3587

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

E Cadieux

HAZARDOUS WAST FACILITY ENDORSEMENT OF LIABILI INSURANCE

1. Evanston Insurance Company, the ("Insurer"), of Evanston, Illinois 60201 hereby certifies that it has issued liability insurance covering bodily injury and property damage to Conservation Chemical Company of Illinois, (the "insured"), of 6500 Industrial Highway, Gary, Indiana in connection with the insured's obligation to demonstrate financial responsibility under 40 CFR 264.147 or 265.147. The coverage applies at INDO40888992 - Conservation Chemical Company of Illinois, 6500 Industrial Highway, P.O. Box 6066, Gary, Indiana - 46406-0066 for "sudden accidental occurrences". The limits of liability are $500,000 combined single limit bodily injury and property damage per occurrence and aggregate, exclusive of legal defense costs.* The coverage is provided under policy number SP 10898 issued on 1-1-85. The effective date of said policy is January 1, 1985 to January 1, 1986.

2. The Insurer further certifies the following with respect to the insurance described in Paragraph 1:

   (a) Bankruptcy or insolvency of the insured shall not relieve the Insurer of its obligations under the policy.

   (b) The Insurer is liable for the payment of amounts within any deductible applicable to the policy, with a right of reimbursement by the insured for any such payment made by the Insurer. This provision does not apply with respect to that amount of any deductible for which coverage is demonstrated as specified in 40 CFR 264.147(f) or 265.147(f).

   (c) Whenever requested by a Regional Administrator of the U.S. Environmental Protection AGency (EPA), the Insurer agrees to furnish to the Director a signed duplicate original of the policy and all endorsements.

   (d) Cancellation of this insurance, whether by the Insurer or the insured, will be effective only upon written notice and only after the expiration of sixty (60) days after a copy of such written notice is received by the Regional Administrator (d) of the EPA Region(s) in which the facility(ies) is (are) located.

   (e) Any other termination of this insurance will be effective only upon written notice and only after the expiration of thirty (30) days after a copy of such written notice is received by the Regional Administrator (d) of the EPA Region(s) in which the facility(ies) is (are) located.

I hereby certify that the wording of this instrument is identical to the wording specified in 40 CFR 264.151(i) as such regulation was constituted on the date first above written, and that the Insurer is licensed to transact the business of insurance, or eligible to provide insurance as an excess or surplus lines insurer, in one or more States.

Authorized Representative
Evanston Insurance Company

* A deductible of $7,500 per occurrence for bodily injury and property damage is applicable to this coverage and the deductible expense shall also apply towards the investigation, adjustment, legal expense settlement or payment made by the company with respect to each and every claim.

Coverage Provided: Products and Completed Operations

M10:CC7/1-2-85

(IND040888997)

acord CERTIFICATE OF INSURANCE

SEE REVERSE SIDE FOR ARROWS

ISSUE DATE (MM/DD/YY): 1-7-85

PRODUCER

Marsh & McLennan, Inc.
127 West 10th Street
Kansas City, Missouri 64105

RECEIVED
MAR 1 1985
WMD-RAIU
EPA, REGION V

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

COMPANIES AFFORDING COVERAGE

COMPANY LETTER	A	Republic Insurance Company
COMPANY LETTER	B	
COMPANY LETTER	C	
COMPANY LETTER	D	
COMPANY LETTER	E	

INSURED

Conservation Chemical Company, Conservation Chemical Co. of Ill., Midland Resources, Inc. and Midland Trucking Company
5201 Johnson Drive, Suite 400
Mission, Kansas 66205

COVERAGES

THIS IS TO CERTIFY THAT POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS, AND CONDITIONS OF SUCH POLICIES.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIABILITY LIMITS IN THOUSANDS	EACH OCCURRENCE	AGGREGATE
A	**GENERAL LIABILITY**	CDG 3383	12-26-84	1-1-86			
	X COMPREHENSIVE FORM				BODILY INJURY	$	$
	X PREMISES/OPERATIONS				PROPERTY DAMAGE	$	$
	UNDERGROUND EXPLOSION & COLLAPSE HAZARD				BI & PD COMBINED	$ *	$ *
	PRODUCTS/COMPLETED OPERATIONS						
	X CONTRACTUAL				PERSONAL INJURY		$
	X INDEPENDENT CONTRACTORS						
	X BROAD FORM PROPERTY DAMAGE						
	X PERSONAL INJURY						
	X Broad Form GL Endorsement						
	AUTOMOBILE LIABILITY				BODILY INJURY (PER PERSON)	$	
	ANY AUTO				BODILY INJURY (PER ACCIDENT)	$	
	ALL OWNED AUTOS (PRIV. PASS.)				PROPERTY DAMAGE	$	
	ALL OWNED AUTOS (OTHER THAN PRIV. PASS.)				BI & PD COMBINED	$	
	HIRED AUTOS						
	NON-OWNED AUTOS						
	GARAGE LIABILITY						
	EXCESS LIABILITY				BI & PD COMBINED	$	$
	UMBRELLA FORM						
	OTHER THAN UMBRELLA FORM						
	WORKERS' COMPENSATION AND EMPLOYERS' LIABILITY				STATUTORY		
					$	(EACH ACCIDENT)	
					$	(DISEASE-POLICY LIMIT)	
					$	(DISEASE-EACH EMPLOYEE)	
	OTHER						

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

* See Attached Hazardous Waste Facility Endorsement of Liability Insurance

CERTIFICATE HOLDER

Regional Administrator
U.S. EPA Region V
Attn: RCRA Financial Requirement
P.O. Box A3587
Chicago, Illinois 60690-3587

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL _____ DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

HAZARDOUS WA. .S FACILITY ENDORSEMENT OF LIABI :Y INSURANCE

1. Republic Insurance Company, the ("Insurer"), of Dallas, Texas 75222 hereby certifies that it has issued liability insurance covering bodily injury and property damage to Conservation Chemical Company of Illinois, (the "insured"), of 6500 Industrial Highway, Gary, Indiana in connection with the insured's obligation to demonstrate financial responsibility under 40 CFR 264.147 or 265.147. The coverage applies at IND040888992 - Conservation Chemical Company of Illinois, 6500 Industrial Highway, P.O. Box 6066, Gary, Indiana 46406-0066 for "sudden accidental occurrences". The limits of liability are $500,000 combined single limit bodily injury and property damage per occurrence and aggregate, exclusive of legal defense costs.* The coverage is provided under policy number CDG 3383 issued on 12-26-84. The effective date of said policy is December 26, 1984 to January 1, 1986.

2. The Insurer further certifies the following with respect to the insurance described in Paragraph 1:

   (a) Bankruptcy or insolvency of the insured shall not relieve the Insurer of its obligations under the policy.

   (b) The Insurer is liable for the payment of amounts within any deductible applicable to the policy, with a right of reimbursement by the insured for any such payment made by the Insurer. This provision does not apply with respect to that amount of any deductible for which coverage is demonstrated as specified in 40 CFR 264.147(f) or 265.147(f).

   (c) Whenever requested by a Regional Administrator of the U.S. Environmental Protection AGency (EPA), the Insurer agrees to furnish to the Director a signed duplicate original of the policy and all endorsements.

   (d) Cancellation of this insurance, whether by the Insurer or the insured, will be effective only upon written notice and only after the expiration of sixty (60) days after a copy of such written notice is received by the Regional Administrator (d) of the EPA Region(s) in which the facility(ies) is (are) located.

   (e) Any other termination of this insurance will be effective only upon written notice and only after the expiration of thirty (30) days after a copy of such written notice is received by the Regional Administrator (d) of the EPA Region(s) in which the facility(ies) is (are) located.

I hereby certify that the wording of this instrument is identical to the wording specified in 40 CFR 264.151(i) as such regulation was constituted on the date first above written, and that the Insurer is licensed to transact the business of insurance, or eligible to provide insurance as an excess or surplus lines insurer, in one or more States.

Authorized Representative
Republic Insurance Company

* A deductible of $5,000 per claim for bodily injury and property damage is applicable to this coverage and the deductible expense shall also apply towards the investigation, adjustment, legal expense settlement or payment made by the company with respect to each and every claim.

Coverage provided: Premises and Operations

M10:CC9/1-2-85

CONSERVATION CHEMICAL COMPANY
OF ILLINOIS
5201 Johnson Drive
Suite 400
Mission, Ks. 66205
913-262-3649

July 2, 1982

Mr. Thomas B. Golz
Waste Management Branch
U.S. Environmental Protection Agency
230 South Dearborn Street
Chicago, IL 60604

Re: Financial Requirements for Facility E.P.A. I.D. No. IND040888992

Dear Mr. Golz:

As the owner and operator of a hazardous waste treatment and storage facility identified by the above captioned E.P.A. I.D. No., we are required to submit information that demonstrates that we are financially capable of bearing the cost of closing our facilities in accordance with the applicable RCRA regulations. We are writing to inform you that we will not be in a position to submit this information by the due date of July 6, 1982. We are currently in the process of working with the trust department at our bank to establish a closure trust fund to satisfy the requirements of Section 265.143. We anticipate having the trust agreement and the fund established in the very near future.

We are choosing this option to evidence financial assurance for closure after having been informed by our insurance brokers, Marsh & McLennan, that neither a surety bond guaranteeing payment into a closure trust fund or closure insurance would be available to us as alternatives. Apparently, neither of these instruments is available in the marketplace at this time. As a relatively small entity, we had hoped that especially the closure insurance mechanism would be supplied by the insurance industry prior to the effective date of the regulations so that we could compare its costs with the other alternatives. We felt it important to make this determination before committing ourselves to the time and expense involved in obtaining another mechanism to provide financial assurance. However, it now seems unlikely that closure insurance will be a viable alternative in the near term.

Please let us know if you need any additional information regarding this matter. If it develops that we are going to experience any significant further delay in complying with this regulation, we will advise you accordingly.

Very truly yours,

CONSERVATION CHEMICAL COMPANY OF ILLINOIS

Norman B. Hjersted
President

NBH/dr

Marsh & McLennan

Marsh & McLennan, Incorporated
127 West 10th Street
Kansas City, Missouri 64105
Telephone 816 221-4422

July 13, 1982

Mr. Valdas Adamkus,
Regional Administrator
U.S., EPA Region V
Attn: Rcia Financial Requirement
P. O. Box A3587
Chicago, Illinois 60690-3587

Re: Conservation Chemical Company of Illinois
EPA ID#IND040888992, and
Conservation Chemical Company EPA
#MOD000829705 and MOD050235597

Dear Mr. Adamkus:

Enclosed please find the original copies of the Hazardous Waste Facility Certificate of Liability Insurance for Conservation Chemical Company of Illinois.

The Certificates show that insured has coverage for "sudden accidental occurrences" provided under a primary policy written through Centaur Insurance Company, and excess liability policy through American Centennial Insurance Company.

If you have any questions concerning the enclosures, please feel free to call.

Sincerely,

Becca Huber

Becca Huber
Account Manager

Enclosures

BH/th

cc: Mr. Lloyd Kaiser
Conservation Chemical Company
5201 Johnson Dr., Suite 400
Mission, Kansas 66205

HAZARDOUS WASTE FACILITY CERTIFICATE OF LIABILITY INSURANCE

1. Centaur Insurance Company, the ("Insurer"), of Chicago, Illinois, 60606 hereby certifies that it has issued liability insurance covering bodily injury and property damage to Conservation Chemical Company of Illinois, (the "insured"), of 6500 Industrial Highway, Gary, Indiana in connection with the insured's obligation to demonstrate financial responsibility under 40 CFR 264.147 or 265.147. The coverage applies at IND040888992 - Conservation Chemical Company of Illinois, 6500 Industrial Highway, P.O. Box 6066, Gary, Indiana 46406-0066 for "sudden accidental occurrences". The limits of liability are $500,000 combined single limit bodily injury and property damage per occurrence and aggregate, exclusive of legal defense costs. * The coverage is provided under policy number PL01191, issued on 1/11/82. The effective date of said policy is 12/14/81 to 1/1/83.

2. The Insurer further certifies the following with respect to the insurance described in Paragraph 1:

(a) Bankruptcy or insolvency of the insured shall not relieve the Insurer of its obligations under the policy.

(b) The Insurer is liable for the payment of amounts within any deductible applicable to the policy, with a right of reimbursement by the insured for any such payment made by the Insurer. this provision does not apply with respect to that amount of any deductible for which coverage is demonstrated as specified in 40 CFR 264.147(f) or 265.147(f).

(c) Whenever requested by a Regional Administrator of the U.S. Environmental Protection Agency (EPA), the Insurer agrees to furnish to the Regional Administraor a signed duplicate original of the policy and all endorsements.

(d) Cancellation of this insurance, whether by the Insurer or the insured, will be effective only upon written notice and only after the expiration of sixty (60) days after a copy of such written notice is received by the Regional Administrator (d) of the EPA Region(s) in which the facility(ies) is (are) located.

(e) Any other termination of this insurance will be effective only upon written notice and only after the expiration of thirty (30) days after a copy of such written notice is received by the Regional Administrator(s) of the EPA Region(s) in which the facility(ies) is (are) located.

I hereby certify that the wording of this instrument is identical to the wording specified in 40 CFR 264.151(i) as such regulation was constituted on the date first above written, and that the Insurer is licensed to transact the business of insurance, or eligible to provide insurance as an excess or surplus lines insurer, in one or more States.

* A deductible of $5,000 per claim for bodily injury and property damage is applicable to this coverage and the deductible expense shall also apply towards the investigation, adjustment, legal expense settlement or payment made by the company with respect to each and every claim.

George B. McNeill

George B. McNeill
Authorized Representative

HAZARDOUS WASTE FACILITY CERTIFICATE OF LIABILITY INSURANCE

1. American Centennial Insurance Company, the ("Insurer"), of Morristown, New Jersey 07960 hereby certifies that it has issued liability insurance covering bodily injury and property damage to Conservation Chemical Company of Illinois, (the "insured"), of 6500 Industrial Highway, Gary, Indiana in connection with the insured's obligation to demonstrate financial responsibility under 40 CFR 264.147 or 265.147. The coverage applies at IND040888992 - Conservation Chemical Company of Illinois, 6500 Industrial Highway, P.O. Box 6066, Gary, Indiana 46406-0066 for "sudden accidental occurrences". The limits of liability are $2,000,000 each occurrence, and $2,000,000 annual aggregate excess of coverage provided under primary liability written with Centaur Insurance Company, Policy number PL01191, exclusive of legal defense costs. The coverage is provided under policy number XC-00-08-96, issued on 12/23/82. The effective date of said policy is 12/14/81 to 1/1/83.

2. The Insurer further certifies the following with respect to the insurance described in Paragraph 1:

(a) Bankruptcy or insolvency of the insured shall not relieve the Insurer of its obligations under the policy.

(b) The Insurer is liable for the payment of amounts within any deductible applicable to the policy, with a right of reimbursement by the insured for any such payment made by the Insurer. this provision does not apply with respect to that amount of any deductible for which coverage is demonstrated as specified in 40 CFR 264.147(f) or 265.147(f).

(c) Whenever requested by a Regional Administrator of the U.S. Environmental Protection Agency (EPA), the Insurer agrees to furnish to the Regional Administraor a signed duplicate original of the policy and all endorsements.

(d) Cancellation of this insurance, whether by the Insurer or the insured, will be effective only upon written notice and only after the expiration of sixty (60) days after a copy of such written notice is received by the Regional Administrator (d) of the EPA Region(s) in which the facility(ies) is (are) located.

(e) Any other termination of this insurance will be effective only upon written notice and only after the expiration of thirty (30) days after a copy of such written notice is received by the Regional Administrator(s) of the EPA Region(s) in which the facility(ies) is (are) located.

I hereby certify that the wording of this instrument is identical to the wording specified in 40 CFR 264.151(i) as such regulation was constituted on the date first above written, and that the Insurer is licensed to transact the business of insurance, or eligible to provide insurance as an excess or surplus lines insurer, in one or more States.

John C. Kraeutler

John C. Kraeutler
Authorized Representative

SHAND, MORAHAN & COMPANY, INC./SHAND MORAHAN PLAZA/EVANSTON, ILLINOIS 60201/PHONE (312) 866-2800

Date: Feb. 26 1985

To: Mr. Jeffrey Stephens
1330 W. Michigan St.
P.O. Box 1964
Indianapolis, IN 46206-1964

Re: Conservation Chemical
Policy # SP 10898

ENCLOSED IS YOUR:

☐ POLICY

☐ INVOICE

☐ ENDORSEMENT

☒ Hazardous Waste Certificate + Endorsement (originals)

Please contact me if you have any questions.

Sincerely,

Chris White
Special Risks Department

ACORD CERTIFICATE OF INSURANCE

SET TAB STOPS AT ARROWS

ISSUE DATE (MM/DD/YY): 2/20/85

PRODUCER
Marsh & McLennan, Inc.
127 West 10th Street
Kansas City, Mo. 64105

Contact: Becca Huber at
816-221-4422

FEB 28 2 30 PM

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURED
Conservation Chemical Company, Conservation Chemical Co., of Ill., Midland Resources, Inc. and Midland Trucking Company
5201 Johnson Drive, Suite 400
Mission, Kansas 66205

COMPANIES AFFORDING COVERAGE

COMPANY LETTER A	Evanston Insurance Company
COMPANY LETTER B	
COMPANY LETTER C	
COMPANY LETTER D	
COMPANY LETTER E	

COVERAGES

THIS IS TO CERTIFY THAT POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS, AND CONDITIONS OF SUCH POLICIES.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIABILITY LIMITS IN THOUSANDS	EACH OCCURRENCE	AGGREGATE
A	GENERAL LIABILITY	SP 10898	1-1-85	1-1-86			
	[ ] COMPREHENSIVE FORM				BODILY INJURY	$	$
	[ ] PREMISES/OPERATIONS						
	[ ] UNDERGROUND EXPLOSION & COLLAPSE HAZARD				PROPERTY DAMAGE	$	$
	[X] PRODUCTS/COMPLETED OPERATIONS						
	[X] CONTRACTUAL (Limited)				BI & PD COMBINED	$ *	$ *
	[ ] INDEPENDENT CONTRACTORS						
	[ ] BROAD FORM PROPERTY DAMAGE				PERSONAL INJURY		$
	[ ] PERSONAL INJURY						
	AUTOMOBILE LIABILITY				BODILY INJURY (PER PERSON)	$	
	[ ] ANY AUTO						
	[ ] ALL OWNED AUTOS (PRIV. PASS.)				BODILY INJURY (PER ACCIDENT)	$	
	[ ] ALL OWNED AUTOS (OTHER THAN PRIV. PASS.)						
	[ ] HIRED AUTOS				PROPERTY DAMAGE	$	
	[ ] NON-OWNED AUTOS						
	[ ] GARAGE LIABILITY				BI & PD COMBINED	$	
	EXCESS LIABILITY				BI & PD COMBINED	$	$
	[ ] UMBRELLA FORM						
	[ ] OTHER THAN UMBRELLA FORM						
	WORKERS' COMPENSATION AND EMPLOYERS' LIABILITY				STATUTORY		
					$	(EACH ACCIDENT)	
					$	(DISEASE-POLICY LIMIT)	
					$	(DISEASE-EACH EMPLOYEE)	
	OTHER						

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

* See attached hazardous waste facility endorsement of liability insurance.

CERTIFICATE HOLDER

Indiana State Board of Health
Attn: Jeffrey W. Stevens
1330 W. Michigan Street
PO Box 1964
Indianapolis, IN 46206-1964

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 10 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE
Richard P. Kruger

Cancelled July 5, 1985

HAZARDOUS WASTE FACILITY ENDORSEMENT OF LIABILITY INSURANCE

1. Evanston Insurance Company, the ("Insurer"), of Evanston, Illinois 60201 hereby certifies that it has issued*liability insurance covering bodily injury and property damage to Conservation Chemical Company of Illinois, (the "insured"), of 6500 Industrial Highway, Gary, Indiana in connection with the insured's obligation to demonstrate financial responsibility under 320 IAC 4-7-26. The coverage applies at INDO40888992 - Conservation Chemical Company of Illinois, 6500 Industrial Highway, P.O. Box 6066, Gary, Indiana 46406-0066 for "sudden accidental occurrences". The limits of liability are $500,000 combined single limit bodily injury and property damage per occurrence and aggregate, exclusive of legal defense costs.* The coverage is provided under policy number SP 10898 issued on 1-1-85. The effective date of said policy is January 1, 1985 to January 1, 1986.

2. The Insurer further certifies the following with respect to the insurance described in Paragraph 1:

   (a) Bankruptcy or insolvency of the insured shall not relieve the Insurer of its obligations under the policy.

   (b) The Insurer is liable for the payment of amounts within any deductible applicable to the policy, with a right of reimbursement by the insured for any such payment made by the Insurer. This provision does not apply with respect to that amount of any deductible for which coverage is demonstrated as specified in 320 IAC 4-7-26(f).

   (c) Whenever requested by the technical secretary of the Environmental Management Board of the state of Indiana (EMB), the Insurer agrees to furnish to the technical secretary a signed duplicate original of the policy and all endorsements.

   (d) Cancellation of this insurance, whether by the Insurer or the insured, will be effective only upon written notice and only after the expiration of sixty (60) days after a copy of such written notice is received by the technical secretary of the EMB.

   (e) Any other termination of this insurance will be effective only upon written notice and only after the expiration of thirty (30) days after a copy of such written notice is received by the technical secretary.

I hereby certify that the wording of this instrument is identical to the wording specified in 320 IAC 4-7-36 as such regulation was constituted on the date first above written, and that the Insurer is licensed to transact the business of insurance, or eligible to provide insurance as an excess or surplus lines insurer, in one or more States.

Richard P. Kropp/VP
Authorized Representative
Evanston Insurance Company

* A deductible of $7,500 per occurrence for bodily injury and property damage is applicable to this coverage and the deductible expense shall also apply towards the investigation, adjustment, legal expense settlement or payment made by the company with respect to each and every claim.

** Coverage Provided: Products and Completed Operations ONLY

6:CC:C1/2-20-85

Marsh & McLennan

Marsh & McLennan, Incorporated
127 West 10th Street
Kansas City, Missouri 64105
Telecopier: 816 556-4362
Telex: 426322
Telephone: 816 221-4422

August 22, 1985

AUG 985

Mr. Lloyd Kaiser
Conservation Chemical Company
5201 Johnson Drive, Suite 400
Mission, Kansas 66205

RE: Conservation Chemical Co., et. al.

Dear Lloyd:

Thank you for your letter of July 29, 1985 requesting that we summarize our marketing efforts on your behalf to procure liability coverage for Conservation Chemical Co., et. al.

Please find enclosed a list of fifty (50) companies that we have contacted on your behalf but who have declined to offer a quotation. Also find enclosed a copy of a list of companies, that were also contacted on your behalf that was given to you on May 16 by Leonard P. Kline, Jr. Many of those companies were contacted more than once, for your products liability, your umbrella liability and again for your automobile liability. In each case we requested that they provide sudden and accidental pollution liability coverage.

In the past, we have submitted applications for Environmental Impairment Liability on your behalf to National Union Fire Insurance Company and the Home Insurance Company. The applications were submitted but additional data was requested by the companies. Apparently, they never received the additional data they felt they needed.

There is still a limited market for Environmental Impairment Liability available. If you want us to pursue those markets, please contact me. There will be expenses involved to engineer your locations by the insurance company(ies) and there are no assurances that coverage will be available to you, but there are still several markets writing this coverage. Outside of the E.I.L. there is virtually no pollution coverage available.

Please contact me Lloyd, if you wish to discuss this matter further or if you have any questions.

Sincerely,

Daniel M. Murray

Daniel M. Murray, CPCU
Account Manager
816/556-4324

DMM:ct/45

CONSERVATION CHEMICAL

Company	Reason for Declination
Admiral	Will not consider this risk because of their class of business
Aetna C&S	Will not consider this risk because of their class of business
Agricultural E&S	Will not consider this risk because their treaties excluded chemical risks
Allianz	Will only write high excess layer of coverage, above $25,000,000.
Atlantic	Will not consider this risk because of their class of business
Central National	Will not write chemical risks
Century Indemnity	Will not consider this risk because of their class of business
Chubb	Will not consider this risk because of their class of business
CIGNA	Will not consider this risk because of their class of business

Company	Reason for Declination
CNA	Will not consider this risk because of their class of business
Columbia Casualty	Will not provide sudden and accidental pollution coverage
Constitution State	Will not provide sudden and accidental pollution coverage
Continental	Will not consider this risk because of their class of business
Fireman's Fund	Will not provide sudden and accidental pollution coverage
First State	Will not consider this risk because the company is not accepting new business
Great American	Will not consider this risk because of their class of business
Great Southwest	Will not provide sudden and accidental pollution coverage
Guaranty National	Will not provide sudden and accidental pollution coverage

Company	Reason for Declination
Harbor	Will not consider this risk because of their class of business
Hartford	Will not consider this risk because of their class of business
Hartford Specialty	Will not provide sudden and accidental pollution coverage
Highlands	Will not consider this risk because of their class of business
Home	Will not consider this risk because of their class of business
Industrial Indemnity	Will not consider this risk because of their class of business
Integrity	Will not provide sudden and accidental pollution coverage
ISLIC	Will not consider this risk because of their class of business
Kemper	Will not consider this risk because of their class of business

Company	Reason for Declination
Landon	Will not provide sudden and accidental pollution coverage
Lexington	Will only write high excess layer of coverage, above $25,000,000.
Midland	Will not consider this risk because of their class of business
Mission	Will not consider this risk because of their class of business
Mutual Fire & Marine	Will not consider this risk because of their class of business
North Star	Will not consider this risk because of their class of business
Northbrook E&S	Will not consider this risk because of their class of business
Northfield	Will not provide sudden and accidental pollution coverage
Pacific Employers	Will not provide sudden and accidental pollution coverage

Company	Reason for Declination
Republic	Will not provide sudden and accidental pollution coverage
Royal	Will not consider this risk because of their class of business
Safeco	Will not consider this risk because of their class of business
Safety Mutual	Will not consider this risk because their treaties excluded chemical risks
Scottsdale	Will not provide sudden and accidental pollution coverage
St. Paul	Will not consider this risk because of their class of business
St. Paul Surplus	Will not provide sudden and accidental pollution coverage
Stonewall	Will not provide sudden and accidental pollution coverage
Travelers	Will not consider this risk because of their class of business

Company	Reason for Declination
United National	Will not consider this risk because of their class of business
Wausau	Will not provide sudden and accidental pollution coverage
Western Employers	Will not consider this risk because the company is not accepting new business
Zurich	Will not consider this risk because of their class of business

ct/51

Aetna Casualty & Surety Company
American International Group (National Union Fire Ins. Co.)
Atlantic Mutual Insurance Company
Jake Blythe
Chubb Insurance Group
Cigna Insurance
CNA Insurance Group
Continental Insurance Company
Fireman's Fund Insurance Company
Great American Insurance Company
Hartford Insurance Company
Home Insurance Company
Kemper Insurance Company
Maryland Casualty & Surety Company
Mission Insurance
Royal Insurance
Safeco Insurance
St. Paul Fire & Marine
Travelers Insurance
Travis-Pederson
U.S. Insurance Group
Zurich American Insurance
CMI Group (Midland Insurance & American Centennial)
Highlands Insurance Group
Republic Insurance
C.T. Bowring (Llyod's of London)
Allianz Insurance
Central Risk Specialist (Lexington Insurance Co.)
George Knight & Associates (Rockwood, Canal & Southern Ins.)
McAlear & Nason Associates (Central National, International Surplus Lines, Northbrook, Columbia Casualty, Admiral, Integrity, Chicago, Northstar)
Cravens Dargan (Central National, Century Indemnity)
Montgomery & Collins (Integrity Insurance and Royal Belge)
Sayre & Toso
Shand Morahan
Stonewall Underwriters
Insurance Brokers' Service
United National - St. Paul Surplus Lines, Harbor, First State Insurance, California Union Insurance, Wausau International, Transit Casualty, Surety Mutual, Mutual Fire & Marine
Pacific Employers
Western Employers
Gaslic
Industrial Indemnity
Illinois Union
First State
Union National
Jefferson
Republic
Allianaz
Centaur

STATE OF INDIANA

STATE BOARD OF HEALTH

AN EQUAL OPPORTUNITY EMPLOYER

INDIANAPOLIS

Address Reply to:
Indiana State Board of Health
1330 West Michigan Street
P. O. Box 1964
Indianapolis, IN 46206-1964

July 23, 1985

VIA CERTIFIED MAIL

Mr. Floyd Kaiser
Conservation Chemical Company
5201 Johnson Drive, Suite 400
Mission, KA 66205

Dear Mr. Kaiser:

Re: Hazardous Waste Liability Insurance
Conservation Chemical Company
IND 040888992

Please be advised that this Division has received notice of cancellation/non-renewal of your hazardous waste liability insurance for sudden accidential occurrences, effective June 15, 1985, and July 5, 1985. Rule 320 IAC 4-7-26 requires that Conservation Chemical Company continuously provide this liability coverage until certification of closure.

This Division will be looking at the following criteria in order to determine whether a good faith effort to obtain replacement insurance has been made:

1. Did the company submit a complete application to the insurance carriers in a timely fashion? That is, did the company allow sufficient time for the insurance firms to process and issue the policy.

2. Did the company submit applications to at least several known suppliers of Environmental Impairment Liability coverage?

3. Did the company have prepared a risk assessment and submit same to insurance carrier along with its application?

Conservation Chemical Company needs to demonstrate its good faith effort through careful and thorough documentation of each step it has taken to seek insurance. This should include documentation of all contacts made and the reasons given by the insurance companies for denying or delaying the applications. Please provide copies of all correspondence with the insurance companies involved.

Failure to provide this Division with proof of compliance with the above-referenced guidelines by September 2, 1985 will result in the referral of this matter to the Enforcement Section. If you have any questions regarding this, please contact Ms. Susan Hyndman, C.P.A., of this office at AC 317/243-5140.

Very truly yours,

Jeffrey W. Stevens

Jeffrey W. Stevens
Environmental Hearing Officer
Division of Land Pollution Control

SH/sk
cc: Ms. Sally Swanson, U.S. EPA, Region V

Marsh & McLennan

Marsh & McLennan, Incorporated
127 West 10th Street
Kansas City, Missouri 64105
Telecopier: 816 556-4362
Telex: 426322
Telephone: 816 221-4422

June 19, 1985

Mr. Lloyd Kaiser
Conservation Chemical Company
5201 Johnson Drive, Suite 400
Mission, Kansas 66205

RE: Conservation Chemical
Midland Resources
Midland Trucking

Dear Lloyd:

The Transport Indemnity has cancelled their umbrella policy effective June 15, 1985. Their cancellation leaves you with only $500,000 General Liability limits, $500,000 Products Liability limits and $1,000,000 Automobile Liability Limits.

We tried to replace the Transport Indemnity coverage but could not find an underwriter willing to offer any pollution liability coverage. In our conversation of June 3, you indicated that you needed insurance which included sudden and accidental pollution liability coverage, and at that time, would not consider purchasing coverage that did not include sudden and accidental pollution liability.

When it was apparent that there were no umbrella markets willing to provide pollution coverage, we tried to obtain excess automobile liability coverage including coverage for sudden and accidental pollution occurrences. Again, we were unsuccessful in obtaining this coverage prior to June 15, 1985. We are continuing to market the excess auto including sudden and accidental pollution liability. We will keep you advised of our progress.

It's with regret that we give you this bad news. Since January we have contacted fifty (50) companies on your behalf and still cannot obtain umbrella coverage.

Sincerely,

Daniel M. Murray

Daniel M. Murray, CPCU
Account Manager
816/556-4324

DMM:ct/139

cc: L. Kline
K. Neas

RECEIVED
JUN 24 1985

CORROON & BLACK OF WISCONSIN, INC.
525 East Michigan Street • Milwaukee 53202
414-271-9800 Telex 26-836
Wisconsin Toll Free 1-800-242-7293

June 11, 1985

Mr. Lloyd Kaiser
Marketing Manager
Midland Resources, Inc.
5201 Johnson Drive, Suite 400
Mission KS 66205

Re: Umbrella Liability Insurance Policy

Dear Lloyd:

I have reviewed the underwriting information you sent me on May 23, 1985. At that point in time I did have an insurance company willing to do Umbrellas on hazardous waste transporters. Fireman's Fund was willing to write an Umbrella as long as there was $2,000,000 of underlying insurance. I also had a market for a $1,000,000 primary Umbrella through AIG. However, since June 1, 1985, the market for hazardous waste transporters has disappeared.

AIG has completely quit writing Umbrellas at the $1,000,000 excess of $1,000,000 layer. Fireman's Fund will only write an Umbrella on a hazardous waste transporter on layers in excess of $5,000,000. In either case, these markets do not appear to be a solution for conservation chemical.

As we discussed in our telephone conversation on June 10, I do not believe that it is in your best interests to blanket the market with applications searching for an Umbrella if we do not feel there is a reasonably good change of the market being interested in that class of business. The reason for this strategy is that previous underwriting decisions can prejudice future applications.

In my opinion, there is not a market for the Umbrella coverages required under the Motor Carrier Act or the Resource Conservation Recovery Act. I work in this class of business on a full time basis and am not aware of any Umbrella markets at this point in time.

Very truly yours,

David J. Dybdahl,MBA,CPCU,ARM
Director Environmental
Risk Management Services

DDPB4

Marsh & McLennan

Marsh & McLennan, Incorporated
127 West 10th Street
Kansas City, Missouri 64105
Telecopier: 816 556-4362
Telex: 426322
Telephone: 816 221-4422

June 4, 1985

Mr. Lloyd Kaiser
Conservation Chemical Company
5201 Johnson Drive, Suite 400
Mission, Kansas 66205

Re: Products Liability
Evanston Insurance Company

Dear Lloyd:

The Evanston Insurance Company sent direct notice of cancellation first, effective 7-5 and later, effective 7-29-85. We thought there may be a chance that the Evanston would reconsider their cancellation, but they have said no, they would not reconsider and their cancellation will stand, effective 7-29-85.

We will continue our efforts to replace the Evanston, but have strong doubts that we can replace them.

You should give consideration to an Environmental Impairment Liability policy. Currently, there is a very limited market for this coverage. The limits available are modest, and the premium costs are high. There is a long period between completed application and eventual policy issuance, currently running about six (6) months minimum. The cost for pre-inspection engineering can be quite high and are passed on to the prospective client (you). Even paying for the pre-inspection costs, there is no guarantee that your underwriter will offer coverage. Despite these drawbacks, the E.I.L. is a virtual necessity as there is almost no pollution coverage available, outside the Environmental Impairment Liability policy, either sudden, accidental or gradual.

Please consider the E.I.L. and if you want us to market this product for you, please let me know.

Sincerely,

Daniel M. Murray

Daniel M. Murray, CPCU
Account Manager
816/556-4324

RECEIVED
JUN 06 1985

DMM:mc/379

cc: L. Kline

IND 040 888 992

SHAND, MORAHAN & COMPANY, INC. / SHAND MORAHAN PLAZA / EVANSTON, ILLINOIS 60201 / PHONE (312) 866-2800

May 23, 1985

Regional Administrator
U.S. EPA-REGION V
RCRA FINANCIAL REQUIREMENT
P.O. Box A 3587
Chicago, IL 60690-3587

RE: NOTICE OF CANCELLATION
Insured: CONSERVATION CHEMICAL CO.
Policy No.: SP 10898
Coverage: Specified Products and Completed Operations
Cancellation Effective Date: July 29, 1985
Insurer: Evanston Insurance Company

Gentlemen:

Please take notice that the above certificate issued to you through the Evanston Insurance Company will be cancelled as indicated above by the Insurer.

This letter is therefore our written notice of cancellation or termination of certificates and/or endorsement previously filed as to the following location or facility:

EPA Identification No.: IND 040 888 992

Facility/Location: Conservation Chemical Co.
6500 Industrial Highway
Gary, Indiana

Very truly yours,

Len Mikulski

Len Mikulski
Special Risks Department
LM/mjg

cc: Ms. Kathy Neas
MARSH & McLENNAN
127 West 10th Street
Kansas City, MO 64105

Marsh & McLennan

Marsh & McLennan, Incorporated
127 West 10th Street
Kansas City, Missouri 64105
Telecopier: 816 556-4362
Telex: 426322
Telephone: 816 221-4422

IN D040888992

May 17, 1985

Regional Adminstrator
US EPA Region V
Attn: RCRA Financial Requirement
P. O. Box A3587
Chicago, Illinois, 60690-3587

RE: NOTICE OF CANCELLATION
Insured: CONSERVATION CHEMICAL CO.
Policy No.: TUL 00773C
Coverage: Umbrella
Cancellation Effective: 12:01 a.m. 6-15-85
Insurer: Transport Indemnity

Gentlemen:

Please take notice that the above certificate issued to you through the Transport Indemnity Company will be cancelled as indicated above by the insurer.

This letter is a written notice of cancellation or termination of certificates and/or endorsement previously filed.

Very truly yours,

Ruth Lindsay
Manager, CSR Unit
816/556-4268

RL:ct/154

cc: Conservation Chemical Company
5201 Johnson Drive, Suite 400
Mission, KS 66205

MR

May 23, 1985

Mr. David J. Dybdahl, Jr.
Account Executive
Corroon & Black of Wisconsin, Inc.
525 East Michigan Street
Milwaukee, Wisconsin 53202

Dear David:

In accordance with our recent telephone conversations, I am enclosing herewith considerable information regarding the operations of Conservation Chemical Company, Conservation Chemical Company of Illinois, Midland Resources, Inc. and Midland Trucking Company. These four companies are members of a commonly-controlled group of companies. The president of each company is Norman B. Hjersted. He owns all of the stock in Midland Resources, Inc. and Midland Trucking Company. He owns approximately 98% of the stock in Conservation Chemical Company of Illinois and approximately 95% of the stock in Conservation Chemical Company. Prior to giving you some additional information about the enclosed items, I will give you a brief description of the current operations of all four companies.

Conservation Chemical Company is a Missouri Corporation with plants located in St. Louis, Missouri and Kansas City, Missouri. At the St. Louis, Missouri Plant, Conservation Chemical Company's only business operation is to receive spent pickle liquor generated by Steel Processing Facilities. Spent pickle liquor results from immersing steel coils or steel wire in a bath of either Hydrochloric Acid or Sulfuric Acid which causes the iron oxide on the steel to pop off. The iron oxide then reacts with the Hydrochloric or Sulfuric Acid to form either Ferrous Chloride or Ferrous Sulfate. Conservation Chemical Company has a permit from the Missouri Department of Natural Resources to serve as a Resource Recovery Facility to recycle pickle liquor. The Ferrous Chloride Spent Pickle Liquor is treated by oxidizing it with chlorine to make Ferric Chloride. The Ferrous Sulfate Pickle Liquor is treated by neutralizing it by adding additional iron. Both of these treated products are then sold to municipalities and some industrial users to be used as a coagulant or flocculant to treat both wastewater and potable water. Since pickle liquor is a listed hazardous waste (K062), its treatment and storage falls under the RCRA Regulations.

Conservation Chemical Company's St. Louis Plant does not accept any other hazardous waste except pickle liquor. Prior to 1980, it did accept and store dilute Cyanide Solutions and spent refinery Caustic. All of those hazardous wastes have been removed from the facility and all that remains is to clean out the two storage tanks in which these items were stored.

Conservation Chemical Company's Kansas City Plant is made up of a hazardous waste landfill approximately 5 acres in area and a tank farm occupying approximately 1 acre immediately in front of the landfill area. Beginning in 1959, Conservation Chemical Company treated, stored, and disposed of chemical wastes at its facility

located at 8900 Front Street. The landfill portion of the facility was closed in 1979. It was closed by capping it with a mixture of fly-ash and pickle liquor which, upon reacting and drying, formed an impermeable cover. All of the hazardous waste stored in the tanks at the front of the facility was disposed of in 1982. A closure plan has been submitted to the U.S. EPA to close out the tank farm portion of the site. This plan includes dismantling the tanks. Currently, there are no ongoing operations at Conservation Chemical Company's Kansas City, Missouri facility.

Conservation Chemical Company of Illinois is a Missouri corporation with a plant facility located at 6500 Industrial Highway in Gary, Indiana. Like Conservation Chemical Company's St. Louis Plant, its primary business operation currently is to receive spent pickle liquor and convert it into Ferric Chloride which is then sold as a water treatment chemical. In addition, Conservation Chemical Company of Illinois operates its own transportation fleet and transports hazardous waste. Currently, its transportation of hazardous waste is limited to pickle liquor which is used as a raw material to make Ferric Chloride, spent Ammonium Persulfate hauled in bulk for a company called Kalmus and Associates (this is hauled in bulk approximately two 2500 gallon shipments per month) and one truckload per year of spent Copper Pyrophosphate also for Kalmus and Associates (hauled in 55-gallon drums approximately 30 drums per shipment per year).

Conservation Chemical Company of Illinois does not accept any other hazardous waste except pickle liquor at its facility. However, it continues to store other hazardous wastes which were received at the facility prior to 1980. An itemization including volumes is provided in the enclosed information. Our current operating plan calls for a partial closure of the facility by eliminating the storage of all hazardous waste except pickle liquor. The expense associated with this partial closure will probably necessitate that the reduction of inventories of hazardous waste take place over a period of several years.

Midland Resources, Inc. is a Missouri corporation located at 10 Breman Avenue in St. Louis, Missouri. It shares a facility with Conservation Chemical Company located at the same address. Midland Resources, Inc.'s primary business is to produce Ferric Sulfate, Ferri Chlor, Aluminum Sulfate and Sodium Aluminate all of which are used as coagulants and/or flocculants for wastewater and/or potable water treatment. In addition, it produces Potassium Flouride which is used in an industrial application. All of the products produced by Midland Resources are manufactured using what we term virgin raw materials (i.e., none of them are hazardous wastes). Midland Resources acts as the sales agent for Conservation Chemical Company and as such also sells Ferric Chloride, Ferrous Chloride and Ferrous Sulfate, All of which could possibly utilize hazardous waste pickle liquor as a source of raw material. Midland Resources, Inc. does not treat or store hazardous waste and does not have an EPA Identification No.

Midland Trucking Company is a Missouri corporation located at 10 Breman Avenue in St. Louis, Missouri. It was formed in 1984 to serve the transportation needs of Conservation Chemical Company and Midland Resources, Inc. as a contract carrier. Prior to the formation of Midland Trucking Company, Conservation Chemical Company and Midland Resources, Inc. operated their own private carriage operation or utilized common carriers for their transportation needs. Because Midland Trucking Company will be hauling hazardous waste pickle liquor for Conservation Chemical Company, it has applied for and received permits to haul

hazardous waste from the Federal EPA as well as the states in which it will be hauling pickle liquor. This is the only hazardous waste that Midland Trucking Company will be hauling. The other products which it hauls for Midland Resources, Inc. will either be raw materials or finished products none of which will be hazardous waste. All of the chemicals hauled by Midland Trucking Company will be hazardous materials from the standpoint of DOT Regulations.

Conservation Chemical Company of Illinois has leased space from the Missouri-Kansas-Texas Railroad in Ft. Worth, Texas and Waco, Texas. Ferric Chloride is shipped from either Conservation Chemical Company of Illinois' facility in Gary, Indiana or Conservation Chemical Company's facility in St. Louis, Missouri in jumbo tank cars to the leased track (referred to as "Team Track" in Ft. Worth and Waco, Texas). The material is then transloaded into tank trailers and delivered to several customers in the Dallas, Texas area. Conservation Chemical Company of Illinois employs one driver to transload the material and deliver it to the customer. Conservation Chemical Company of Illinois leases a tractor from Petro-Chem Transport and garages two rubberlined trailers in Waco, Texas to make the truck deliveries. Conservation Chemical Company of Illinois has no physical facilities in Texas other than the leased trackage and rubberlined trailers mentioned above.

Conservation Chemical Company of Illinois currently leases from General Electric Railcar Services and Pullman Leasing Company twelve 20,000 gallon rubberlined tank cars which are used to transport Ferric Chloride from Gary, Indiana and St. Louis, Missouri to Grand Prarie, Texas, Ft. Worth, Texas, and Waco, Texas. Conservation Chemical Company leases three 20,000 gallon rubberlined tank cars and two 10,000 gallon rubberlined tank cars to transport Ferric Chloride and Ferric Sulfate to Dallas, Texas, Ft. Worth, Texas, Grand Prarie, Texas and Waco, Texas. Copies of the lease agreements are identified as attachments below.

In order to lend some assemblance of order to the enclosed information, I will respond to the request for information by number shown on the document entitled Required Underwriting Information for: (1) Transporters, (2) Storage Facilities and (3) Treatment Facilities which you sent to me. I have numbered all of the enclosures for reference purposes in responding to each of the individual requests for information. Please note that the response to some questions will be applicable to all three plant locations while others will only pertain to the St. Louis, Missouri and Gary, Indiana Facilities. Likewise, some responses will pertain to all four companies while others will not be applicable (e.g., Midland Resources, Inc. does not have an EPA I.D. No. since it does not handle hazardous waste).

Our response and/or enclosures for each of the questions is as follows:

A. Required Underwriting Information for Transporters

1. Driver Information-This information is shown in Enclosure No. 1. Please note that under the list for Midland Resources, none of the individuals shown are over-the-road drivers. They drive the Ford Pick-up owned by the company and located at the St. Louis, Missouri Plant.

2. Copy of EPA Permit No.-This information is shown at Enclosure No. 2. Please note that we have not included a copy of the Federal EPA No. for Midland Trucking Company because we did not receive any written notification from the EPA regarding the assignment of this number. The number was obtained through the Missouri Department of Natural Resources who obtained the number from Region VII at the time that Midland Trucking

Company applied for a permit to transport hazardous waste in the state of Missouri. The number shown at Enclosure No. 2 is the number that was given to us over the phone by MaryAnn Redden, a representative of the Missouri Department of Natural Resources located in Jefferson City, Missouri.

3. Copy of EPA Permit Application- With respect to transportation of hazardous waste, the only application that we made to the EPA was to fill out their form entitled Notification of Hazardous Waste Activity on which we indicated that Transportation was a hazardous waste activity for Conservation Chemical Company of Illinois. As I indicated in the above item, Midland Trucking Company did not make a formal application to the EPA for a Hazardous Waste Transporter No. The aforementioned Notifications ~~is~~ are shown at Enclosure No. 3.

4. ICC Docket No.-As a private carriage operation, Conservation Chemical Company of Illinois does not have an ICC Docket No. Midland Trucking Company's ICC Docket No. is shown at Enclosure No. 4.

5. PUC Filings- As a private carriage operation, Conservation Chemical Company of Illinois does not file with the various Public Utility Commissions in the states in which it operates. As a contract carrier, Midland Trucking Company has registered in the states in which it will operate. Our insurance broker requested that the appropriate insurance companies forward the necessary Form E filings with the various Public Utility Commissions. We did not receive copies of those Form E's. Included at Enclosure No. 5 is a copy of the two Form D Uniform Identification Cab Cards which are currently being utilized by Midland Trucking Company. In order to get the stickers shown on the Form D it was necessary for the Form E filings to be made. We are submitting Enclosure No. 5 as evidence of the fact that we have made the required filings for Midland Trucking Company.

6. Radius of Operations- Enclosure No. 6 is a Schedule of Vehicles which includes information regarding the radius of operations.

7. Hazardous Waste Products Transported- The only hazardous waste transported by Midland Trucking Company is waste pickle liquor. This is only transported in bulk in tank trailers. In 1984, approximately 788,000 gallons of waste pickle liquor was transported into the St. Louis Plant in the company's vehicles. Approximately the same amount will be transported into the plant in 1985. No other type of hazardous waste will be transported by Midland Trucking Company. In 1984 Conservation Chemical Company of Illinois transported approximately 1,997,000 gallons of spent pickle liquor into its plant in Gary, Indiana. We estimate that the volume of waste pickle liquor transported by Conservation Chemical Company of Illinois' vehicles into the plant will be reduced substantially compared to 1984. At this time, our best estimate is that it will be approximately 1,000,000 gallons transported in 1985. It is possible that this estimate could increase as business conditions change, but we would not expect it to exceed the amount hauled in 1984. All of the waste pickle liquor was hauled in bulk in rubberlined tank trailers. In addition to the waste pickle liquor, Conservation Chemical Company of Illinois will transport approximately 60,000 gallons of waste Ammonium Persulfate for a company called Kalmus and Associates located in Bridgeview, Illinois. This material is a spent

Ammonium Persulfate Solution which is generated when the Ammonium Persulfate material is used to etch copper circuit boards. The material is pumped into our rubberlined tank trailers and transported to Envirite Corporation's facility located in Harvey, Illinois. Conservation Chemical Company of Illinois will transport approximately 35 drums of spent Copper Pyrophosphate from Kalmus and Associates' facility in Bridgeview, Illinois to Chemical Waste Management's facility in Calumet City, Illinois.

8. Disposal Facilities Used and EPA Numbers- Midland Trucking Company does not haul any hazardous waste other than the spent pickle liquor which it transports to Conservation Chemical Company's facility at 10 Breman Avenue in St. Louis, Missouri. Conservation Chemical Company's EPA No. is MODO50235597. All of the spent pickle liquor transported by Midland Trucking Company to Conservation Chemical Company is recycled into water treatment chemicals (i.e., either Ferric Chloride or Ferrous Sulfate). Conservation Chemical Company of Illinois transports spent pickle liquor to Conservation Chemical Company of Illinois' Plant located at 6500 Industrial Highway in Gary, Indiana. Its EPA No. is IND040888992. All of the spent pickle liquor transported to Conservation Chemical Company of Illinois' facility is recycled into Ferric Chloride. As indicated above, Conservation Chemical Company of Illinois transports spent Ammonium Persulfate to Envirite's facility located at 16435 South Center Avenue, Harvey, Illinois 60426. Envirite's EPA No. is ILD000666206. Envirite certifies in writing that the waste delivered to their facility is non-hazardous after it has been treated by the Envirite Process. Conservation Chemical Company of Illinois transports approximately 35 drums per year of spent Copper Pyrophosphate to Chemical Waste Management's facility located at 138th Street & Calumet Expressway, Calumet City, Illinois 60409. Chemical Waste Managements EPA No. is ILD010284248. Currently, these are the only hazardous waste chemicals being hauled by Conservation Chemical Company of Illinois.

9. Contractual Obligations- Midland Trucking Company has no contractual obligations to transport hazardous waste for any other company. It does have contracts to transport hazardous waste pickle liquor for Conservation Chemical Company, but it is not obligated to transport. The contract simply sets forth the terms of the agreement. Conservation Chemical Company of Illinois is not obligated by contract to either pick-up or transport hazardous waste pickle liquor for any of the steel processing companies with whom it currently does business. The same holds true with respect to the spent Ammonium Persulfate and Copper Pyrophosphate which it picks up and transports for Kalmus and Associates. Each individual truckload is handled as a separate transaction. A Uniform Hazardous Waste Manifest and a Bill of Lading Shipping Paper is prepared for each individual load.

10. Any Operation other than Hazardous Waste Hauling- Midland Trucking Company will transport Ferric Chloride, Ferric Sulfate, Ferrous Sulfate, Ferrous Chloride, Ferri Chlor, Aluminum Sulfate, Sodium Aluminate, Hydroflousilicic Acid and Potassium Flouride for Midland Resources, Inc. Conservation Chemical Company of Illinois will transport Ferric Chloride and Ferrous Chloride in a private carriage operation. Product Data Sheets for these products are attached at Enclosure No. 7. In 1985, we estimate that Midland Trucking Company will transport approximately 1,000,000 gallons of Ferrous Sulfate, 25,000 gallons of Ferri Chlor, 183,000 gallons of Ferric Chloride, 50,000 gallons of Ferrous Chloride, 83,000 gallons of Potassium Flouride, 68,000 gallons of Sodium Aluminate and 67,000 gallons of Ferric Sulfate. A truck-

load will average approximately 4,000 gallons. In 1985, we estimate that Conservation Chemical Company of Illinois will transport approximately 438,000 gallons of Ferric Chloride and approximately 166,400 gallons of Ferrous Chloride from its plant in Gary, Indiana. It will transport approximately 888,000 gallons of Ferric Chloride from its terminals in Ft. Worth and Waco, Texas to the Dallas area in 1985.

11. Annual Receipts- A Consolidated Earnings Statement for Conservation Chemical Company, Conservation Chemical Company of Illinois and Midland Resources, Inc. for the calendar year 1984 and the first quarter of 1985 are enclosed at Enclosure No. 8. We do not yet have an audited statement for calendar year 1984. I have also enclosed at Enclosure No. 8 copies of the audited statement for each of these three companies for the years ended December 31, 1982 and 1983. With respect to the freight revenues, I would like to point out that Conservation Chemical Company of Illinois has a significant amount of rail freight income resulting from its shipments of Ferric Chloride to the North Texas Area. Historically, the insurance companies have allowed us to exempt this revenue from our total receipts in the calculations of our premium. They have also allowed us to deduct the revenues that we earned from our trucking operations since it is not a ~~permanent~~ primary business for us (i.e., we operate our trucks not as an independent revenue center, but rather to accomodate our manufacturing needs to deliver raw materials to our plant and finished products to our customers). Please note that I have not included an earnings statement for Midland Trucking Company. Even though it was incorporated in 1984, we have not prepared an Earnings Statement because its operations do not begin until 1985. Revenues and expenses associated with the trucking operation at the St. Louis Plant have been shown on the statements for Conservation Chemical Company and Midland Resources, Inc.

12. Annual Payrolls- Information regarding the annual payroll is shown at Enclosure No. 9. The information shown here resulted from the audit done by the Traveler's Insurance Company auditor for the calendar year 1984. I anticipate that our payroll will be comparable for 1985. Please note that the driver we employ in Texas is not included on the Enclosure No. 9. We anticipate that his total gross wages for 1985 will be approximately $25,000.00.

13. Association Memberships- None of the four commonly-controlled group of companies are members of any of the associations listed under Item 13.

B. Required Underwriting Information For Storage Facilities

1. Copy of EPA Permit No.- Copies of the Acknowledgement of Notification of Hazardous Waste Activity advising us of our EPA I.D. No. for Conservation Chemical Company's Kansas City and St. Louis, Missouri Plants, and Conservation Chemical Company of Illinois' Gary, Indiana Plant are shown at Enclosure No. 10. We have also enclosed a copy of Conservation Chemical Company's Certified Resource Recovery Facility Permit for its facility located at 10 Breman Avenue in St. Louis, Missouri.

2. Copy of EPA Permit Application- Copies of revised Part A's for Conservation Chemical Company's St. Louis Plant and Conservation Chemical Company of Illinois' Gary Plant are shown at Enclosure No. 11. We were not able to find a copy of our original Part A application for Conservation Chemical Company's Kansas City, Missouri Plant. It was filed in a timely fashion with the Region VII EPA Office. The Kansas City, Missouri site has been the subject of on going litigation for the last five years. As a result of that litigation our files have been taken out of the office and copied on several different occasions. I speculate that the original Part A for the Kansas City Site has been misplaced in this process.

3. Location of Each Site- Conservation Chemical Company's St. Louis Plant is located at 10 Breman Avenue, St. Louis, Missouri. Drawings identified as P-1, P-3 and Plot Plan revised 3/1/85 which describe the location are shown at Enclosure No. 12. Conservation Chemical Company of Illinois is located at 6500 Industrial Highway, Gary, Indiana. Drawings identified as B-2 and B-14 which describe the site are shown at Enclosure No. 12.

4. Nature of Site Location- Conservation Chemical Company's and Midland Resources, Inc.'s facility is located at 10 Breman Avenue, St. Louis, Missouri. Please see the drawings shown at Enclosure No. 12. Conservation Chemical Company of Illinois' facility is located in an Industrial Area. Please see the drawings shown at Enclosure No. 12.

5. Type and Quantity of each Substance Stored and Containment Method- For Conservation Chemical Company's storage of hazardous waste, this information is shown at Enclosure No. 13 on Page G-15. With respect to finished products and other raw materials stored by Conservation Chemical Company and Midland Resources, Inc. this information is shown on pages G-16 through G-20 at Enclosure No. 13.

   The information regarding type, quantity and containment method of each substance stored for Conservation Chemical Company of Illinois is shown at Enclosure No. 14 on pages G-13 through G-19.

   In addition to the wastes shown on those pages, there are two tanks at the facility identified as Tank No. 19 and Tank No. 22 both of which contain some oil. Tank No. 19 contains approximately 191,000 gallons of water and oil. Approximately 25,000 gallons of the material is oil. The remainder is water. Tank No. 22 has approximately 470,850 gallons of an oil/asphalt mixture. Both tanks contain PCB's. Although an analysis shows that they contain PCB's ~~at~~ excess of 50 parts per million, it is possible that, through mixing, the total level of PCB's can be reduced to below the 50 ppm level which would exclude from regulation under the Toxic Substances Control Act. Please see Enclosure No. 32 for an analysis.

6. Estimated Length of Storage Time- The pickle liquor brought into Conservation Chemical Company's and Conservation Chemical Company of Illinois' facilities is normally processed within two weeks after it is received. The finished goods produced from recycling the pickle liquor are normally sold within three weeks after they have been treated. The other hazardous waste stored at Conservation Chemical Company of Illinois' facility

will continue to be stored there indefinitely. We will be providing the Indiana State Board of Health with a Closure Plan pertaining to these wastes by August 1, 1985. This plan will include a time frame for disposing of all of the wastes accumulated at that site. Currently, we anticipate that the time frame will be over a period of several years.

The closure plan applicable to Conservation Chemical Company's facility is shown at Enclosure No. 15, we have also enclosed a closure cost estimate. The closure plan applicable to Conservation Chemical Company of Illinois' facility is shown at Enclosure No. 16. A closure cost estimate has also been included for this site. A summary of the closure cost estimate is shown on page I-27 of Enclosure No. 16.

7. Controls Available to prevent Release, Escape or Discharge of Substance- For Conservation Chemical Company, this information is shown at Enclosure No. 17. For Conservation Chemical Company of Illinois, this information is shown at Enclosure No. 18.

8. Annual Receipts- See Enclosure No. 8.

9. Annual Payroll- See Enclosure No. 9.

10. Condition of Premises- For Conservation Chemical Company, please see the Daily Inspection Report dated 5/15/85 at Enclosure No. 19. For Conservation Chemical Company of Illinois, please see the Inspection Reports dated 5/20/85 at Enclosure No. 20.

11. Citations- For Conservation Chemical Company's Kansas City, Missouri Plant please see Enclosure No. 21. Please be advised that for the Item identified as Docket No. 82-H-035 all of the actions stipulated in the Compliance Order have been performed. A hearing was held on this matter and the assessed penalties were reduced from $12,500.00 to $8,500.00. Conservation Chemical Company has appealed this ruling. The appeal is still open. The EPA lawsuit identified by Civil Action File No. 82-0983-CZ-W-5 is going to trial on May 28, 1985. The insurance matter pertaining to this Civil Action will also be tried beginning on that date.

    Citations pertaining to Conservation Chemical Company's St. Louis, Missouri facility are shown at Enclosure No. 22.

    Citations pertaining to Conservation Chemical Company of Illinois' facility in Gary, Indiana are shown in Enclosure No. 23. With respect to the lawsuits involving U.S.A. vs. Midwest Solvent Recory, Inc. et al. and the Lake Sandy Jo-M&M Landfill, please be advised that the Wausau Insurance Company has agreed to defend Conservation Chemical Company of Illinois. In both instances, Conservation Chemical Company of Illinois has no record of sending waste to either of these locations. Conservation Chemical Company of Illinois has requested hearings regarding the Notices of Violations dated July 25, 1984 and December 2, 1980. In both instances, we are waiting a hearing date from the EPA.

12. Active Claims Resulting- Other than those included in Enclosures Nos. 21 through 23, the only active claim that we are aware of at this time is shown at Enclosure No. 24.

13. Association Membership- None of the commonly-controlled group of companies is a member of the associations listed under Item 13.

C. Required Underwriting Information for Treatment Facilities

1. Copy of EPA Permit No.- Please see Enclosure No. 10.

2. Copy of EPA Permit Application- Please see Enclosure No. 11.

3. Type of Operation and Location- For Conservation Chemical Company, this information is shown at Enclosure No. 25.

Midland Resources, Inc. is located at 10 Breman Avenue, St. Louis, Missouri. It manufactures water treatment chemicals from virgin raw materials. Please see Enclosure No. 7 for a description of the products manufactured and sold by Midland Resources, Inc.

Midland Trucking Company is located at 10 Breman Avenue, St. Louis, Missouri. It is involved in transporting hazardous waste pickle liquor for Conservation Chemical Company to use as a raw material. It transports both raw materials and finished products for Midland Resources, Inc. All of the products transported by Midland Trucking Company are hazardous materials.

The type of operation and location information for Conservation Chemical Company of Illinois is shown at Enclosure No. 26.

4. Process Materials Used at the Location- For Conservation Chemical Company, this information is shown at Enclosure No. 27.

As we have indicated earlier, Midland Resources, Inc. does not handle any hazardous waste. However, the chemicals it uses as raw materials to produce its finished products are included on the list shown on pages G-16 through G-20, of Enclosure No. 13.

Information regarding the process materials used at the location as it pertains to Conservation Chemical Company of Illinois is shown at Enclosure No. 28. A summary of the volumes of waste stored at the facility can be seen at page I-2 of Enclosure No. 16.

In 1984, Conservation Chemical Company processed approximately 975,215 gallons of spent pickle liquor at its facility in St. Louis, Missouri. This is the only hazardous waste material processed at the facility. We estimate that a comparable volume will be processed in 1985.

In 1984, Conservation Chemical Company of Illinois processed approximately 2,700,00 gallons of spent pickle liquor at its facility in Gary, Indiana. This is the only hazardous waste material processed at the facility. We estimate that a comparable volume will be processed in 1985.

5. Any Change In the Process Within the Last Five Years that is Altered (lessened or increased) the Risk Liability- There have been no changes in the processes used by Conservation Chemical Company, Midland Resources, Inc. or Conservation Chemical Company of Illinois during this time

period that has altered the Risk of Liability.

6. Effluent Discharge and Other Liquid Waste- Conservation Chemical Company and Midland Resources, Inc. discharge to the City of St. Louis Metropolitan Sanitary Sewer District. Prior to being discharged to the sewer, all water that has been in contact with the process area of the plant is tested for corrosivity. If the pH is below the acceptable limit established by the MSD, the material is neutralized prior to being discharged. We are monitoring our discharges to the sewer in accordance with the pretreatment program established by the MSD. There is a storm water runoff sewer inlet located outside the process area of the plant. This water is not pretreated prior to being discharged to the sewer. We estimate that the annual discharge to the sewer is approximately 500,000 gallons. We are not certain of the exact date that the sewer line was hooked up. However, we have been discharging to the sewer in St. Louis for more than ten years.

   Conservation Chemical Company of Illinois does not discharge into the sewer, river, or ocean. Any water accumulated in the process area sump must be hauled off-site for disposal.

7. Air Emissions- Conservation Chemical Company does not ~~offer~~ operate any process which results in air emissions.

   Midland Resources, Inc. receives Hydrated Alumina which, if not handled properly, could result in an air emission. The Hydrated handling system is fitted with a dust collector which has been inspected by and approved by the City of St. Louis. As long as it is functioning properly, there will be no air emissions from that operation.

   Conservation Chemical Company of Illinois has potential to emit a Ferric Chloride Mist from its process. However, the process is fitted with a demister. As long as this equipment is working properly, there would be no air emissions from the facility.

8. Surrounding Environment to Treatment Facility- For Conservation Chemical Company, please see the drawings shown at Enclosure No. 12, for Midland Resources, Inc., please see the drawings at Enclosure No. 12 also.

   For Conservation Chemical Company of Illinois, please see the drawings at Enclosure No. 12 identified as B-2 and B-14.

9. All of the raw materials are stored in tanks prior to processing. The only exception to that is the small amount of hydrogen peroxide which Midland Resources, Inc. uses to produce Ferric Sulfate.

10. Citations- Please see Enclosures Nos. 21 through 23.

11. Annual Payrolls- Please see Enclosure No. 9.

12. Annual Receipts- Please see Enclosure No. 8.

13. Association Memberships- None of the four commonly-controlled group of companies is a member of any of the associations listed under Item No. 13.

D. Other Enclosures

1. Copies of the Declarations Pages of our current insurance policies are shown at Enclosure No. 29.

2. A history of our automobile ~~lawsuit~~ losses is shown at Enclosure No. 30.

3. Copies of our lease agreements with Pullman Leasing Company, General American Transportation Corporation and General Electric Railcar Services Corporation are shown at Enclosure No. 31. I have included these leases because they require the lessee to indemnify and save harmless the lessor with respect to certain uses and operations of the cars. I would presume that this would be of interest to you in determining our coverage needs.

Although I may have given you more information than you really wanted at this point, I have made an effort to be as thorough as possible in telling you as much about operations as I possibly can. If any of the foregoing items need any further clarification or if you need additional information, please let me know. We certainly appreciate your interest in working with us and hope that we are able to put a package together.

Very truly yours,

MIDLAND RESOURCES, INC.

Lloyd T. Kaiser

Lloyd T. Kaiser
Marketing Manager

Enclosures

REQUIRED UNDERWRITING INFORMATION FOR:

TRANSPORTERS

NOTE: Quotations and policy issuance will be expedited if information listed below is furnished with the original submission.

* ✓ 4. Driver information - name, license number and birth date Included on application

(2.) Copy of EPA Permit Number

(3.) Copy of EPA Permit Application

(4.) ICC docket number if applicable

* (5.) PUC filings if applicable FORM E

* ✓ 6. Radius of operations Various Included on Vehicle Schedule

(7.) Products transported - liquids (bulk tank) or solids (drums) (drums or tank); quantities of each

(8.) Disposal facilities used and EPA numbers

9. Contractual obligations - specific nature and content (hauling, treatment or storage contracts) bill of lading / manifest

10. Any operation other than hazardous waste hauling, e.g., hauling other commodities (exempt or non-exampt) and extent of such operations 1% secondary fr

11. Annual receipts $1,000,000 GROSS

12. Annual payrolls $150,000

13. Are you a member of any of the following Associations? Indicate which one

NO
- Hazardous Waste Services Association (HWSA)
- National Association of Solvent Recyclers (NASR)
- Spill Control Association of America (SCAA)
- Association of Petroleum Re-refiners (APR)

14. Loss History

15. Vehicle list showing values

REQUIRED UNDERWRITING INFORMATION FOR:

STORAGE FACILITIES

NOTE: Quotations and policy issuance will be expedited if information listed below is furnished with the original submission.

1. Copy of EPA Permit Number
2. Copy fo EPA Permit Application
3. Location of each site, description, e.g., yard, warehouse, open impoundment lagoon, tanks
4. Nature of site location - urban, residential, industrial
5. Type and quantity each substance stored and containment method
6. Estimated length of time each substance stored prior to removal or transport
7. Controls available to prevent release, escape or discharge of substance
   a. Limit of access to location
   b. Equipment of monitoring such release or escape
   c. Copy of safety and maintenance programs
8. Annual receipts
9. Annual payroll
10. Condition of premises
11. Citations by Federal, State or Municipal authorities within the last five years
12. Active claims resulting
13. Are you a member of any of the following Associations? Indicate which one

    Hazardous Waste Services Association (HWSA)
    National Association of Solvent Recyclers (NASR)
    Spill Control Association of America (SCAA)
    Association of Petroleum Re-refiners (APR)

REQUIRED UNDERWRITING INFORMATION FOR:

TREATMENT FACILITIES

NOTE: Quotations and policy issuance will be expedited if information listed below is furnished with the original submission.

1. Copy of EPA Permit Number
2. Copy of EPA Permit Application
3. Type of operation and location
4. Process materials used at the location, e.g., restoration of solvents, recycling of materials. Description of each component, quantities per year and maximum amounts stored at any one time
5. Any change in the process within the last five years that has altered (lessened or increased) the risk of liability
6. Effluent discharge and other liquid waste - composition; discharge into the sewer, river or ocean; how many years effluent discharged; quantities last year
7. Air emmissions - nature and composition
8. Surrounding environment to treatment facility
9. Method of storing raw materials prior to processing, e.g., drums, tanks, lagoons, etc.
10. Citation by Federal, State or Municipal authorities within the last five years.
11. Annual payrolls
12. Annual receipts
13. Are you a member of any of the following Associations? Indicate which one

    Hazardous Waste Services Association (HWSA)
    National Association of Solvent Recyclers (NASR)
    Spill Control Association of America (SCAA)
    Association of Petroleum Re-refiners (APR)

Marsh & McLennan

Marsh & McLennan, Incorporated
127 West 10th Street
Kansas City, Missouri 64105
Telephone 816 221-4422

HAND DELIVERED

May 16, 1985

Lloyd Kaiser
Conservation Chemical Co., Inc.
5201 Johnson Drive, Suite 400
Mission, Kansas 66205

Dear Lloyd:

Leonard P. Kline Jr.
Vice President

As you are aware, the products and umbrella policies effective January 1, 1985 were placed with Evanston Insurance Company Policy #SP10898 and Transport Indemnity Policy #RUL00773C.

On April 15, 1985, we were all made aware of Transport's decision to cancel your Umbrella policy as of June 15, 1985. Then while preparing to re-enter the market for placement of that Umbrella, both Marsh & McLennan and Conservation Chemical received notice of cancellation from the Evanston Insurance Company. The effective date of the cancellation is July 5, 1985.

Lloyd we have been and will continue to search for replacement markets for Conservation Chemical Company. However, realizing the continuing tightening of the market, as well as the suit papers received since January 1, 1985, such placement will be very difficult. I have included the markets approached upon your behalf earlier this year, and would suggest that you contact other brokers or agents to make sure that all possible avenues have been exhausted.

Yours very truly,

Leonard P. Kline, Jr.
816/556-4321

LPK:vh/263

cc: Dan Murray

Aetna Casualty & Surety Company
American International Group (National Union Fire Ins. Co.)
Atlantic Mutual Insurance Company
Jake Blythe
Chubb Insurance Group
Cigna Insurance
CNA Insurance Group
Continental Insurance Company
Fireman's Fund Insurance Company
Great American Insurance Company
Hartford Insurance Company
Home Insurance Company
Kemper Insurance Company
Maryland Casualty & Surety Company
Mission Insurance
Royal Insurance
Safeco Insurance
St. Paul Fire & Marine
Travelers Insurance
Travis-Pederson
U.S. Insurance Group
Zurich American Insurance
CMI Group (Midland Insurance & American Centennial)
Highlands Insurance Group
Republic Insurance
C.T. Bowring (Llyod's of London)
Allianz Insurance
Central Risk Specialist (Lexington Insurance Co.)
George Knight & Associates (Rockwood, Canal & Southern Ins.)
McAlear & Nason Associates (Central National, International Surplus Lines, Northbrook, Columbia Casualty, Admiral, Integrity, Chicago, Northstar)
Cravens Dargan (Central National, Century Indemnity)
Montgomery & Collins (Integrity Insurance and Royal Belge)
Sayre & Toso
Shand Morahan
Stonewall Underwriters
Insurance Brokers' Service
United National - St. Paul Surplus Lines, Harbor, First State Insurance, California Union Insurance, Wausau International, Transit Casualty, Surety Mutual, Mutual Fire & Marine
Pacific Employers
Western Employers
Gaslic
Industrial Indemnity
Illinois Union
First State
Union National
Jefferson
Republic
Allianaz
Centaur

Marsh & McLennan

Marsh & McLennan, Incorporated
127 West 10th Street
Kansas City, Missouri 64105
Telecopier: 816 556-4362
Telex: 426322
Telephone: 816 221-4422

May 17, 1985

Indiana State Board of Health
Attn: Jeffrey W. Stevens
1330 W. Michigan Street
P. O. Box 1964
Indianapolis, Indiana, 46202-1964

RE: NOTICE OF CANCELLATION
Insured: CONSERVATION CHEMICAL CO.
Policy No.: TUL 00773C
Coverage: Umbrella
Cancellation Effective: 12:01 a.m. 6-15-85
Insurer: Transport Indemnity

Gentlemen:

Please take notice that the above certificate issued to you through the Transport Indemnity Company will be cancelled as indicated above by the insurer.

This letter is a written notice of cancellation or termination of certificates and/or endorsement previously filed.

Very truly yours,

Ruth Lindsay
Manager, CSR Unit
816/556-4268

RL:ct/154

cc: Conservation Chemical Company
5201 Johnson Drive, Suite 400
Mission, KS 66205

SHAND, MORAHAN & COMPANY, INC. / SHAND MORAHAN PLAZA / EVANSTON, ILLINOIS 60201 / PHONE (312) 866-2800

May 2, 1985

Indiana State Board of Health
1330 West Michigan Street
P.O. Box 1964
Indianapolis, IN 46206-1964
Attn: Mr. Jeffrey Stevens

Re: NOTICE OF CANCELLATION
Insured: CONSERVATION CHEMICAL CO.
Policy No.: SP 10898
Coverage: Specified Products and Completed Operations
Cancellation Effective: July 5, 1985
Insurer:Evanston Ins. Company

Gentlemen:

Please take notice that the above certificate issued to you through the Evanston Insurance Company will be cancelled as indicated above by the Insurer.

This letter is therefore our written notice of cancellation or termination of certificates and/or endorsement previously filed as to the following location or facility:

EPA Identification #: IND 040888992

Facility/Location: Conservation Chemical Co. of Illinois
6500 Industrial Highway
Gary, Indiana

Very truly yours,

Paul W. Springman

Paul W. Springman
Manager
Special Risks Department
PWS/emc

cc: Ms. Kathy Neas
MARSH & McLENNAN
127 West 10th Street
Kansas City, MO 64105

COMPANIES OFFERING EIL INSURANCE AS OF MARCH 4, 1987

The following list includes the names of insurance companies that have agreed to be included on the RCRA docket list as companies currently offering environmental impairment liability (EIL) coverage to treatment, storage and disposal facilities (TSDFs). All information is based on results from a series of telephone surveys of insurance companies, including companies that have previously offered coverage to TSDFs and members of the Pollution Liability Insurance Association (PLIA). A number of points should be noted about this list.

First, although this list was based on a number of surveys, it does not include all companies that offer this type of coverage. The Agency is continuing to contact additional insurance companies and will update this list as more information becomes available. Second, the company contacts listed below are not necessarily the people who were interviewed during the telephone surveys. Third, the EIL policies currently being written by these companies do not necessarily satisfy the RCRA regulations. Finally, inclusion on this list does not guarantee that the company will provide a policy to any particular firm owning a TSDF. Moreover, the availability of coverage from any of the companies listed below is subject to change.

American Home Assurance Company[1]
70 Pine Street
7th Floor
New York, New York 10270
Robert Patterson, Manager, Pollution Legal Liability Dept.
(212) 770-7144
Member, American International Group

Hyparcept Insurance Pool[2]
Aralie Incorporated
8 Williams Street
Pequannock, New Jersey 07440
Dr. Charles P. Priesing, President (201) 694-7896, or
Allan Bader, Executive Vice President (516) 623-9176

---

[1] Writes policies only for Canadian firms that operate hazardous waste facilities in the United States.

[2] Insurance pool is still in the developmental stage, but intending to offer coverage beginning May 1, 1987.

Liberty Mutual Insurance Company[3]
175 Berkeley Street
Boston, Massachusetts 02117
John W. Purkis, Vice President
(617) 357-9500

National Union Fire Insurance Company
70 Pine Street
New York, New York 10270
Robert Patterson, Manager, Pollution Legal Liability Dept.
(212) 770-7144
Member, American International Group

[3] Offers policies only to accounts that carry other coverage with them.

COMPANIES OFFERING EIL INSURANCE AS OF FEBRUARY 25, 1986

The following list includes the names of insurance companies that have agreed to be included on the RCRA docket list as companies currently offering environmental impairment liability (EIL) coverage to treatment, storage and disposal facilities (TSDFs) after November 8, 1985. All information is based on results from a series of telephone surveys of insurance companies, including companies thats have previously offered coverage to TSDFs and members of the Pollution Liability Insurance Association (PLIA). A number of points should be noted about this list.

First, this list was based on a number of surveys and, as a result, it does not include all companies that offer this type of coverage. The Agency is continuing to contact additional insurance companies and will update this list as more information becomes available. Second, the company contacts listed below are not necessarily the people who were interviewed during the telephone surveys. Third, the EIL policies currently being written by these companies do not necessarily satisfy the RCRA regulations. Finally, inclusion on this list does not guarantee that the company will provide a policy to any particular firm owning a TSDF. Moreover, the availability of coverage from any of the companies listed below is subject to change.

American Home Assurance Company[1]
70 Pine Street
7th Floor
New York, New York 10270
Robert Patterson, Manager, Pollution Legal Liability Dept.
(212) 770-7144
Member, American International Group

American Mutual Liability Insurance Company[2]
Quannapowitt Parkway
Wakefield, Massachusetts 01880
Mr. Svehla, Vice President, Underwriting
(617) 245-6000
Member, PLIA

Amerisure Insurance Companies[2]
28 West Adams Avenue
Detroit, Michigan 48226
Ed Foley, Home Office Underwriter
(313) 965-8600
Member, PLIA

Liberty Mutual Insurance Company[2]
175 Berkeley Street
Boston, Massachusetts 02117
John W. Purkis, Vice President
(617) 357-9500

[1]Writes policies only for Canadian firms that operate hazardous waste facilities in the United States.

[2]Offers policies only to accounts that carry other coverage with them.

National Union Fire Insurance Company
70 Pine Street
New York, New York 10270
Robert Patterson, Manager, Pollution Legal Liability Dept.
(212) 770-7144
Member, American International Group

Travelers Insurance Company[2]
One Tower Square-10MN
Hartford, Connecticut 06183-4030
Thomas A. Jackson, Secretary
(203) 277-2867

[2]Offers policies only to accounts that carry other coverage with them.

Enclosed
6048255559

CONSERVATION CHEMICAL COMPANY
OF ILLINOIS

5201 Johnson Drive
Suite 400
Mission, Ks. 66205
913-262-3649

August 29, 1985

Mr. Jeffrey W. Stevens
Environmental Hearing Officer
Indiana State Board of Health
P.O. Box 1964
Indianapolis, IN 46206-1964

Re: Hazardous Waste Liability Insurance
Conservation Chemical Company of Illinois
IND 040888992

Dear Mr. Stevens:

We are in receipt of your letter dated July 23, 1985 regarding the above captioned topic. In response to your letter, I am enclosing herewith copies of correspondence which we have received this year from Marsh & McLennan dated May 16, June 4, June 19, and August 22. These letters chronicle the efforts that our Account Manager at Marsh & McLennan has taken to acquire the coverage necessary under a Comprehensive General Liability Policy to keep Conservation Chemical Company of Illinois in compliance with 40 CFR 265.147 and Rule 320 IAC 4-7-26. Historically, we have used Marsh & McLennan as our broker to obtain all of the insurance necessary to operate our facility. Conservation Chemical Company of Illinois has not had any direct contact with individual insurance companies.

Up until this time, Conservation Chemical Company of Illinois has been able to obtain a Comprehensive General Liability insurance policy which met the requirements set forth in 40 CFR 265.147 and Rule 320 IAC 4-7-26. This was accomplished by purchasing an underlying primary policy and an umbrella policy. The current financial state of the insurance marketplace combined with the reluctance of insurance companies to provide any type of pollution coverage under the Comprehensive General Liability policies has resulted in Conservation Chemical Company of Illinois' inability to obtain the insurance coverage required under 40 CFR 265.147 and Rule 320 IAC 4-7-26 since June 15, 1985. Obviously, the means by which we obtained this coverage heretofore is no longer suitable.

Although our Account Manager with Marsh & McLennan has urged us to give consideration to obtaining an Environmental Impairment Liability insurance policy, he has always been very pessimistic about our ability to obtain such coverage given the limited market available. In fact, his analysis of the probability of our being able to get coverage under an Environmental Impairment Liability insurance policy and the anticipated high cost of such coverage even if it was available was such that we did not believe it was appropriate to pursue this avenue as a means to fulfill the requirement of 40 CFR 265.147 and Rule 320 IAC 4-7-26. This, coupled with the fact that an Environmental Impairment Liability policy would be much more limited in scope than an Umbrella Policy and thus still leave us with significant exposure to risk, has led us to forego making an application for this type of coverage.

However, we are in the process of requesting our Account Manager at Marsh & McLennan to pursue Environmental Impairment Liability markets on our behalf. We will provide them with the necessary documentation to allow them to submit completed applications to the insurance companies writing this coverage. In addition, we have had discussions with John P. Gaughan, an insurance broker with the Williams & Gaughan Agency located in Mission, Kansas. Mr. Gaughan has indicated to us that he may have a potential marketplace for this coverage. We plan to take the steps necessary to determine whether making an application for an Environmental Impairment Liability policy to an insurance company through Mr. Gaughan has a reasonable chance of resulting in our obtaining the coverage at an affordable cost. This will be done by providing him with preliminary information about our operation and sales volume so that the insurance companies can assess the likelihood of whether or not coverage would be afforded to us. In the event that their response is positive, I presume that they will require a detailed application which would be prepared.

In view of the difficulties that they were facing in obtaining a Comprehensive General Liability Umbrella policy for us, Marsh & McLennan suggested that we contact other insurance brokers or agents to make sure all possible alternatives had been exhausted. In acting upon that suggestion, we contacted Mr. David J. Dybdahl with Corroon & Black of Wisconsin, Inc. A copy of our May 23, 1985 letter to Mr. Dybdahl is enclosed herewith without the attachments that were sent to him. Those attachments in total weighed approximately 10 lbs. I saw no merit in sending them along with the letter. I'm also enclosing a copy of the letter we received from Mr. Dybdahl dated June 11, 1985 advising us that he was not able to find a market for the necessary Umbrella Coverages.

We've also talked with James B. Tucker and Mr. Cary W. Jones with the Emett & Chandler Missouri, Inc. Insurance Agency located in Mission Woods, Kansas regarding our needs for insurance coverage. They have not been able to give us any help in the matter.

Although a review of the foregoing and the enclosures will, for the most part, answer any questions broached in your letter of July 23, 1985, specific answers would be as follows:

1. Question-Did the company submit a complete application to the insurance carriers in a timely fashion?

   Answer-As soon as we were notified that our Comprehensive General Liability Policy would be cancelled, Marsh & McLennan began pursuing other insurance carriers immediately. In addition, we approached other insurance agents to determine whether they had an awareness of or access to markets not being pursued by Marsh & McLennan.

2. Question-Did the company submit applications to at least several known suppliers of Environmental Impairment Liability coverage?

   Answer-To our knowledge, neither Marsh & McLennan nor Corroon & Black have submitted applications to any known suppliers of Environmental Impairment Liability Coverage. As indicated above, we intend to pursue this alternative through Marsh & McLennan and John P. Gaughan.

3. Question-Did the company have prepared a risk assessment and submit same to insurance carrier along with his application?

   Answer-We provided the information requested by our insurance brokers to pursue obtaining coverage on our behalf.

3. Answer (cont.)-Enclosed herewith is the information that we provided to Marsh & McLennan prior to January 1, 1985 which we presume was used as the basis for obtaining our Comprehensive General Liability Policy.

   They have requested no additional information from us since that time. Attached to the aforementioned letter dated May 23, 1985 to Mr. David J. Dybdahl of Corroon & Black are copies of pages showing Required Underwriting Information for: Transporters. Storage Facilities and Treatment Facilities. I'm not certain whether this information would be considered a "Risk Assessment".

Please let us know what additional steps must be taken in order to provide the Division with proof of compliance with the guidelines set forth in your July 23, 1985 letter.

Very truly yours,

CONSERVATION CHEMICAL COMPANY OF ILLINOIS

Lloyd T. Kaiser

Lloyd T. Kaiser
Marketing Manager

LTK/kd

Enclosures

DATE	DESCRIPTION	INCOME CASH	PRINCIPAL CASH	INVESTMENTS
06-04-85	PURCHASED MONEY MARKET INVESTMENT ACCOUNT		279.75-	279.75
07-03-85	INTEREST ON MONEY MARKET INVESTMENT ACCOUNT		258.40	
07-05-85	PURCHASED MONEY MARKET INVESTMENT ACCOUNT		258.40-	258.40
07-19-85	CONTRIBUTION FOR PAYMENT OF FEES		225.25	
07-19-85	FIRST HALF 1985 TRUSTEES FEES		225.25-	
08-05-85	INTEREST ON MONEY MARKET INVESTMENT ACCOUNT		266.09	
08-06-85	PURCHASED MONEY MARKET INVESTMENT ACCOUNT		266.09-	266.09
09-03-85	INTEREST ON MONEY MARKET INVESTMENT ACCOUNT		267.85	
09-04-85	PURCHASED MONEY MARKET INVESTMENT ACCOUNT		267.85-	267.85
10-03-85	INTEREST ON MONEY MARKET INVESTMENT ACCOUNT		261.12	
10-04-85	PURCHASED MONEY MARKET INVESTMENT ACCOUNT		261.12-	261.12
11-04-85	INTEREST ON MONEY MARKET INVESTMENT ACCOUNT		271.69	
11-05-85	PURCHASED MONEY MARKET INVESTMENT ACCOUNT		271.69-	271.69
12-03-85	INTEREST ON MONEY MARKET INVESTMENT ACCOUNT		264.66	
12-04-85	PURCHASED MONEY MARKET INVESTMENT ACCOUNT		264.66-	264.66
	ENDING BALANCE	.00	.00	40,543.08

STATEMENT

01-01-85 THROUGH 12-31-85

THE MISSION BANK
CORPORATE TRUST

CONSERVATION CHEMICAL CO. OF ILLINOIS 70 00270 00 PAGE 1

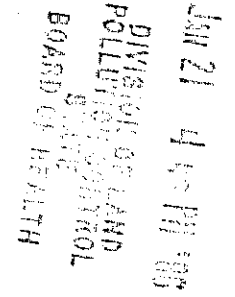
DATE	DESCRIPTION	INCOME CASH	PRINCIPAL CASH	INVESTMENTS
	BALANCE AT BEGINNING OF PERIOD	.00	.00	37,273.14
01-03-85	INTEREST ON MONEY MARKET INVESTMENT ACCOUNT		299.32	
01-04-85	PURCHASED MONEY MARKET INVESTMENT ACCOUNT		299.32-	299.32
02-04-85	INTEREST ON MONEY MARKET INVESTMENT ACCOUNT		277.74	
02-05-85	PURCHASED MONEY MARKET INVESTMENT ACCOUNT		277.74-	277.74
03-04-85	INTEREST ON MONEY MARKET INVESTMENT ACCOUNT		250.60	
03-05-85	PURCHASED MONEY MARKET INVESTMENT ACCOUNT		250.60-	250.60
04-03-85	INTEREST ON MONEY MARKET INVESTMENT ACCOUNT		291.67	
04-04-85	PURCHASED MONEY MARKET INVESTMENT ACCOUNT		291.67-	291.67
05-03-85	INTEREST ON MONEY MARKET INVESTMENT ACCOUNT		281.05	
05-06-85	PURCHASED MONEY MARKET INVESTMENT ACCOUNT		281.05-	281.05
06-03-85	INTEREST ON MONEY MARKET INVESTMENT ACCOUNT		279.75	

OFFICER - ROSELLA HOGLUND

70 00270 00

THE MISSION BANK
MISSION, KANSAS 66205

INDIANA ENVIRONMENTAL MANAGEMENT BOAR
ATTN: RALPH C.PICKARD TECHNICAL SECTY
1330 W. MICHIGAN
INDIANAPOLIS IN 46206



STATEMENT OF
CONSERVATION CHEMICAL CO. OF ILLINOIS

01-01-85 THROUGH 12-31-85

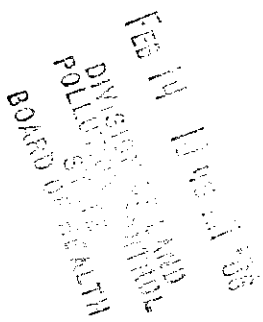
TheTravelers

Environmental Claim Department

The Travelers Companies
P.O. Box 4571
Houston, TX 77210-4571

Houston Office

February 10, 1986



Susan Hyndman
Indiana State Board of Health
1330 W. Michigan Street
Indianapolis, IN 46206-1964

Insured: Vollrath Refrigeration
Site: Northside Sanitary Landfill
Location: Zionsville, Indiana
ERRIS No: IND050530872

Dear Ms. Hyndman:

Our insured has been named as a potentially responsible party for disposing of wastes at the above-captiones site. I would appreciate it if you would forward a complete copy of your records pertaining to our insured's involvement at this site, along with a copy of the remedial investigative feasibility study, and a copy of the master list of the site generators volumetric percentage allocation ranking.

If there is a charge for this information, I will be more than happy to forward a check to you as soon as the charges are known.

If you have any questions about handling this request, you may telephone me at (713)787-4210.

Sincerely,

THE TRAVELERS INSURANCE COMPANY

Peter Roxo

Peter Roxo
Environmental Claims

PR:rs

HOME OFFICE
One Tower Square
Hartford, CT 06183

P101 337590

Wickes
Manufacturing Company

Executive Offices
26261 Evergreen Rd.
Southfield, MI

Mailing Address
P.O. Box 999
Southfield, MI 48037

February 7, 1986

CERTIFIED/RETURN RECEIPT

#P101337582
Mr. Anthony Donatoni
Hazardous Materials Branch
Region III
6th and Walnut Streets
Philadelphia, Pennsylvania
19106

#P101337583
Mr. Thomas B. Golz
Waste Management Branch
Region V
230 South Dearborn Street
Chicago, Illinois
60604

#P101337589
Mr. Robert L. Morby
Hazardous Materials Branch
Region VII
324 East 11th Street
Kansas City, Missouri
64106

#P101337590
Technical Secretary
Indiana Environmental Management
Board
Indiana State Board of Health
1330 West Michigan Street
Indianapolis, Indiana 46206

Dear Sir/Madam:

Enclosed are replacement Certificates of Insurance, with attachments, to be included with the Financial Assurances Filing submitted previously on behalf of Wickes Manufacturing Company. The facilities covered by this insurance are listed in the attachment to the Certificate.

After our original filing it was brought to our attention that these certificates were not complete. This omission was inadvertent and resulted from preparation of the Financial Assurances documents shortly after our company was purchased by Wickes Companies, Inc.

Very truly yours,

Michael J. Bauer

MICHAEL J. BAUER
Resident Counsel

ENCLOSURES
/cw

CC: Mr. K. Matthews
Mr. V. Patil

ACORD CERTIFICATE OF INSURANCE

SET TAB STOPS AT ARROWS

ISSUE DATE (MM/DD/YY): 1/3/86

PRODUCER

Marsh & McLennan, Incorporated
3303 Wilshire Boulevard
Los Angeles CA 90010
(213) 380-1600

INSURED

Wickes Manufacturing Company
3340 Ocean Park Boulevard
Santa Monica CA 90405

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

COMPANIES AFFORDING COVERAGE

COMPANY LETTER A	Continental Insurance Company
COMPANY LETTER B	
COMPANY LETTER C	
COMPANY LETTER D	
COMPANY LETTER E	

COVERAGES

THIS IS TO CERTIFY THAT POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS, AND CONDITIONS OF SUCH POLICIES.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIABILITY LIMITS IN THOUSANDS	EACH OCCURRENCE	AGGREGATE
A	**GENERAL LIABILITY**	SRL 3344638	11/7/85	11/7/86			
	[X] COMPREHENSIVE FORM				BODILY INJURY	$	$
	[ ] PREMISES/OPERATIONS				PROPERTY DAMAGE	$	$
	[ ] UNDERGROUND EXPLOSION & COLLAPSE HAZARD				BI & PD COMBINED	$ 1,000	$ 2,000
	[ ] PRODUCTS/COMPLETED OPERATIONS						
	[ ] CONTRACTUAL				PERSONAL INJURY		$
	[ ] INDEPENDENT CONTRACTORS						
	[ ] BROAD FORM PROPERTY DAMAGE						
	[ ] PERSONAL INJURY						
	AUTOMOBILE LIABILITY				BODILY INJURY (PER PERSON)	$	
	[ ] ANY AUTO				BODILY INJURY (PER ACCIDENT)	$	
	[ ] ALL OWNED AUTOS (PRIV. PASS.)				PROPERTY DAMAGE	$	
	[ ] ALL OWNED AUTOS (OTHER THAN PRIV. PASS.)				BI & PD COMBINED	$	
	[ ] HIRED AUTOS						
	[ ] NON-OWNED AUTOS						
	[ ] GARAGE LIABILITY						
	EXCESS LIABILITY				BI & PD COMBINED	$	$
	[ ] UMBRELLA FORM						
	[ ] OTHER THAN UMBRELLA FORM						
	WORKERS' COMPENSATION AND EMPLOYERS' LIABILITY				STATUTORY		
					$	(EACH ACCIDENT)	
					$	(DISEASE-POLICY LIMIT)	
					$	(DISEASE-EACH EMPLOYEE)	
	OTHER						

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

Inclusive of insureds obligation as respects to financial responsibility under 40 CFR 264.147 of 265.147 for sudden accidental occurrence; limits shall apply on an annual policy term basis regardless of the number of locations insured by this policy. Please see attachment to this certificate.

CERTIFICATE HOLDER

U.S. ENVIRONMENTAL PROTECTION AGENCY

INDIANA STATE BOARD OF HEALTH

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

ATTACHMENT TO CERTIFICATE OF INSURANCE

POLICY NO. SRL 3344638

CONTINENTAL INSURANCE COMPANIES

1. Continental Insurance Companies (the "Insurer") of 180 Maiden Lane, New York, New York 10038 hereby certifies that it has issued liability insurance covering bodily injury and property damage to Wickes Manufacturing Company (the "Insured") of 3340 Ocean Park Boulevard, Santa Monica, California 90405 in connection with Insured's obligation to demonstrate financial responsibility under 40 CFR 264.147 or 265.147. The coverage applies at (see attached list) for sudden accidental occurrences. The limits of liability are $1,000,000 per occurrence and $2,000,000 aggregate exclusive of legal defense costs. The coverage is provided under Policy No. SRL 3344638, issued on November 8, 1985. The effective date of said policy is November 7, 1985.

2. The Insurer further certifies the following with respect to the insurance described in Paragraph 1:

(a) Bankruptcy or insolvency of the Insured shall not relieve the Insurer of its obligations under the policy.

(b) The Insurer is liable for the payment of amounts within any deductible applicable to the policy, with a right of reimbursement by the Insured for any such payment made by the Insurer. This provision does not apply with respect to that amount of any deductible for which coverage is demonstrated as specified in 40 264.147(f) or 265.147(f).

(c) Whenever requested by a Regional Administrator of the U.S. Environmental Protection Agency (EPA), the Insurer agrees to furnish to the Regional Administrator a signed duplicate original of the policy and all endorsements.

(d) Cancellation of the insurance, whether by the Insurer or the Insured, will be effective only upon written notice and only after the expiration of sixty (60) days after a copy of such written notice is received by the Regional Administrator(s) of the EPA Region(s) in which the facility(ies) is(are) located.

(e) Any other termination of the insurance will be effective only upon written notice and only after the expiration of thirty (30) days after a copy of such written notice is received by the Regional Administrator(s) of the EPA Region(s) in which the facility(ies) is(are) located.

I hereby certify that the wording of this instrument is identical to the wording specified in 40 CFR 264.151(j) as such regulation was constituted on the date first above written, and that the Insurer is licensed to transact the business of insurance or eligible to provide insurance as an excess of surplus lines insurer, in one or more states.

(Signature of Authorized Representative)

Norm Janowski
(Type Name of Authorized Representative)

Manager, Authorized Representative

CONTINENTAL INSURANCE COMPANIES
180 Maiden Lane
New York, New York 10038

acord® CERTIFICATE OF INSURANCE

ISSUE DATE (MM/DD/YY): 1/3/86

PRODUCER

Marsh & McLennan, Incorporated
3303 Wilshire Boulevard
Los Angeles CA 90010
(213) 380-1600

INSURED

Wickes Manufacturing Company
3340 Ocean Park Boulevard
Santa Monica CA 90405

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

COMPANIES AFFORDING COVERAGE

COMPANY LETTER **A**	Continental Insurance Company
COMPANY LETTER **B**	
COMPANY LETTER **C**	
COMPANY LETTER **D**	
COMPANY LETTER **E**	

COVERAGES

THIS IS TO CERTIFY THAT POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS, AND CONDITIONS OF SUCH POLICIES.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIABILITY LIMITS IN THOUSANDS	EACH OCCURRENCE	AGGREGATE
A	**GENERAL LIABILITY**						
	[X] COMPREHENSIVE FORM	SRL 3344638	11/7/85	11/7/86	BODILY INJURY	$	$
	[ ] PREMISES/OPERATIONS				PROPERTY DAMAGE	$	$
	[ ] UNDERGROUND EXPLOSION & COLLAPSE HAZARD				BI & PD COMBINED	$ 3,000	$ 6,000
	[ ] PRODUCTS/COMPLETED OPERATIONS						
	[ ] CONTRACTUAL				PERSONAL INJURY		$
	[ ] INDEPENDENT CONTRACTORS						
	[ ] BROAD FORM PROPERTY DAMAGE						
	[ ] PERSONAL INJURY						
	AUTOMOBILE LIABILITY				BODILY INJURY (PER PERSON)	$	
	[ ] ANY AUTO				BODILY INJURY (PER ACCIDENT)	$	
	[ ] ALL OWNED AUTOS (PRIV. PASS.)				PROPERTY DAMAGE	$	
	[ ] ALL OWNED AUTOS (OTHER THAN PRIV. PASS.)				BI & PD COMBINED	$	
	[ ] HIRED AUTOS						
	[ ] NON-OWNED AUTOS						
	[ ] GARAGE LIABILITY						
	EXCESS LIABILITY				BI & PD COMBINED	$	$
	[ ] UMBRELLA FORM						
	[ ] OTHER THAN UMBRELLA FORM						
	WORKERS' COMPENSATION AND EMPLOYERS' LIABILITY				STATUTORY		
					$	(EACH ACCIDENT)	
					$	(DISEASE-POLICY LIMIT)	
					$	(DISEASE-EACH EMPLOYEE)	
	OTHER						

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS Inclusive of insureds obligation as relates to financial responsibility under 40 CFR 264.147 of 265.147 for non sudden accidental occurrence limits shall apply on an annual policy term basis regardless of the number of locations insured by this policy. Please see attachment to this certificate.

CERTIFICATE HOLDER

U.S. ENVIRONMENTAL PROTECTION AGENCY

INDIANA STATE BOARD OF HEALTH

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

ATTACHMENT TO CERTIFICATE OF INSURANCE

POLICY NO. SRL 3344638

CONTINENTAL INSURANCE COMPANY

1. Continental Insurance Companies (the"Insurer"), of 180 Maiden Lane, New York, New York 10038 hereby certifies that it has issued liability insurance covering bodily injury and property damage to Wickes Manufacturing Company, (the "Insured"), of 3340 Ocean Park Boulevard, Santa Monica, California 90405 in connection with Insured's obligation to demonstrate financial responsibility under 40 CFR 264.147 or 265.147. The coverage applies to (see attached list) for nonsudden accidental occurrences. The limits of liability are $3,000,000 per occurrence and $6,000,000 aggregate exclusive of legal defense costs. The coverage is provided under Policy No. SRL 3344638, issued on 11/8/85. The effective date of said policy is 11/7/85.

2. The Insurer further certifies the following with respect to the insurance described in Paragraph 1.:

(a) Bankruptcy or insolvency of the Insured shall not relieve the Insurer of its obligations under the policy.

(b) The Insurer is liable for the payment of amounts within any deductible applicable to the policy, with a right of reimbursement by the Insured for any such payment made by the Insurer. This provision does not apply with respect to that amount of any deductible for which coverage

is demonstrated as specified in 40 CFR 264.147(f) or 265.147(f).

(c) Whenever requested by a Regional Administrator of the U.S. Environmental Protection Agency (EPA), the Insurer agrees to furnish to the Regional Administrator a signed duplicate original of the policies and all endorsements.

(d) Cancellation of the insurance, whether by the Insurer of the Insured, will be effective only upon written notice and only after the expiration of sixty (60) days after a copy of such written notice is received by the Regional Administrator(s) of the EPA Region(s) in which the facility(ies) is(are) located.

(e) Any other termination of the insurance will be effective only upon written notice and only after the expiration of thirty (30) days after a copy of such written notice is received by the Regional Administrator(s) of the EPA Region(s) in which the facility(ies) is(are) located.

We hereby certify that the wording of this instrument is identical to the wording specified in 40 CFR 264.151(j) as such regulation was constituted on the date first above written, and that the Insurer is licensed to transact the business of insurance, or eligible to provide insurance as

excess of surplus lines insurer, in one or more States.

(SIGNATURE OF AUTHORIZED REPRESENTATIVE)

(TYPED NAME OF AUTHORIZED REPRESENTATIVE)

CONTINENTAL INSURANCE COMPANIES
180 Maiden Lane
New York, New York 10038

COVERED FACILITIES

ELCO-HUNTINGDON DIVISION
ELCO CORPORATION
Huntingdon Industrial Park
Huntingdon, Pennsylvania 16652
EPA ID NO. PAD00409462

MECHANICAL COMPONENTS DIVISION
WICKES MANUFACTURING COMPANY
90-96 Railroad Street
Mancelona, Michigan 49659
EPA ID NO. MID060178688

BUMPER DIVISION
GRAND RAPIDS PLANT
WICKES MANUFACTURING COMPANY
1860 Alpine Avenue, N.W.
Grand Rapids, Michigan 49504
EPA ID NO. MID055850127

BOHN ALUMINUM & BRASS DIVISION
WICKES MANUFACTURING COMPANY
Route 4, P. O. Box 387
Greensburg, Indiana 47240
EPA ID NO. IND052959640

EAGLE SIGNAL CONTROLS DIVISION
WICKES MANUFACTURING COMPANY
736 Federal Street
Davenport, Iowa 52803
EPA ID NO. IAD051001337

LIST OF ASSETS 12-31-85

SHARES/PAR	DESCRIPTION	COST	MARKET PRICE	AS OF	MARKET VALUE
	CORPORATE BONDS				
40,543.08	MONEY MARKET INVESTMENT ACCOUNT	40,543.08			40,543.08
	TOTAL CORPORATE BONDS	40,543.08 *			40,543.08 *
	TOTAL PRINCIPAL CASH	.00 *			.00 *
	TOTAL ASSETS	40,543.08 *			40,543 3 *

MARKET VALUES FOR BONDS AND REAL ESTATE ARE ESTIMATED

THE MISSION BANK
PO Box 130, Mission, Kansas 66201

TRUST DEPARTMENT
Main Bank • 5201 Johnson Drive
(913) 831-2400

ACCOUNT(S)	INTERIM	ANNUAL	VALUATIONS	--STATEMENT(S) ENCLOSED FOR--
80-0270-00	1	1	1	

INDIANA DEPT OF ENVIRONMENTAL MGMT
ATTN: JEFF STEVENS
P O BOX 6015
105 S MERIDAN
INDIANAPOLIS, IN 46225

THE MISSION BANK
P.O. Box 130, Mission, Kansas 66201

TRANSACTIONS FOR PERIOD 01/01/92 - 12/31/92

1/05/93 PAGE 1

TRUST DEPARTMENT
Main Bank • 5201 Johnson Drive
(913) 831-2400

ACCOUNT NUMBER 60-0270-00 CONSERVATION CHEMICAL COMPANY OF ILLINOIS ADM OFF - RJH

		INCOME	PRINCIPAL	INVESTMENTS
01/01/92	BEGINNING BALANCES	.00 *	.00 *	108,274.58 *
01/06/92	MONEY MARKET INVESTMENT ACCOUNT INTEREST RECEIVED		473.15	
01/06/92	MONEY MARKET INVESTMENT ACCOUNT DEPOSIT		473.15-	473.15
02/05/92	MONEY MARKET INVESTMENT ACCOUNT INTEREST RECEIVED		452.98	
02/05/92	MONEY MARKET INVESTMENT ACCOUNT DEPOSIT		452.98-	452.98
03/04/92	MONEY MARKET INVESTMENT ACCOUNT INTEREST RECEIVED		380.11	
03/04/92	MONEY MARKET INVESTMENT ACCOUNT DEPOSIT		380.11-	380.11
04/06/92	MONEY MARKET INVESTMENT ACCOUNT INTEREST RECEIVED		417.67	
04/06/92	MONEY MARKET INVESTMENT ACCOUNT DEPOSIT		417.67-	417.67
05/06/92	MONEY MARKET INVESTMENT ACCOUNT INTEREST RECEIVED		416.90	
05/06/92	MONEY MARKET INVESTMENT ACCOUNT DEPOSIT		416.90-	416.90
05/14/92	ESCROW AGENT'S FEE FOR FIRST HALF OF 1992		426.31-	
05/15/92	MONEY MARKET INVESTMENT ACCOUNT REDEEMED		426.31	426.31-
06/04/92	MONEY MARKET INVESTMENT ACCOUNT INTEREST RECEIVED		370.56	
06/04/92	MONEY MARKET INVESTMENT ACCOUNT DEPOSIT		370.56-	370.56
07/06/92	MONEY MARKET INVESTMENT ACCOUNT INTEREST RECEIVE		375.40	

THE MISSION BANK
P.O. Box 130, Mission, Kansas 66201

TRANSACTIONS FOR PERIOD 01/01/92 - 12/31/92

1/05/93

TRUST DEPARTMENT
Main Bank • 5201 Johnson Drive
(913) 831-2400

ACCOUNT NUMBER 80-0270-0[illegible] CONSERVATION CHEMICAL COMPANY OF ILLINOIS

ADM OFF - RJH

		INCOME	PRINCIPAL	INVESTMENTS
7/06/92	MONEY MARKET INVESTMENT ACCOUNT DEPOSIT		375.40-	375.40
8/04/92	MONEY MARKET INVESTMENT ACCOUNT INTEREST RECEIVED		380.07	
8/04/92	MONEY MARKET INVESTMENT ACCOUNT DEPOSIT		380.07-	380.07
9/04/92	MONEY MARKET INVESTMENT ACCOUNT INTEREST RECEIVED		364.32	
9/04/92	MONEY MARKET INVESTMENT ACCOUNT DEPOSIT		364.32-	364.32
0/05/92	MONEY MARKET INVESTMENT ACCOUNT INTEREST RECEIVED		320.27	
0/05/92	MONEY MARKET INVESTMENT ACCOUNT DEPOSIT		320.27-	320.27
1/04/92	MONEY MARKET INVESTMENT ACCOUNT INTEREST RECEIVED		351.84	
1/04/92	MONEY MARKET INVESTMENT ACCOUNT DEPOSIT		351.84-	351.84
1/25/92	FEE FOR PERIOD FROM 07-01-92 TO 12-31-92		431.56-	
1/27/92	MONEY MARKET INVESTMENT ACCOUNT REDEEMED		431.56	431.56-
2/04/92	MONEY MARKET INVESTMENT ACCOUNT INTEREST RECEIVED		321.45	
2/04/92	MONEY MARKET INVESTMENT ACCOUNT DEPOSIT		321.45-	321.45
2/31/92	ENDING BALANCE	.00 *	.00 *	112,041.43 *

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A/C 80-0270-00 CONSERVATION CHEMICAL COMPANY OF ILLINOIS ASSETS HELD AS OF 12/31/92

ADM OFFICER - RJH INV OFFICER - RJH

UNITS / DESCRIPTION	RATING	COST OR BOOK VALUE	% OF ACCT	YIELD %	UNIT PRICE	MARKET VALUE	% OF ACCT	YIELD %	ESTIMATED INCOME
-- CASH EQUIVALENTS --									
-- MASTER NOTES & MONEY MKT FUNDS --									
112,041.430 MONEY MARKET INVESTMENT ACCOUNT		112,041.43	100.00	3.50		112,041.43	100.00	3.50	3,921.45
TOTAL ASSETS		112,041.43	***100.00	3.50		112,041.43	***100.00	3.50	3,921.45
INCOME CASH		.00	*			.00	*		
PRINCIPAL CASH		.00	*			.00	*		
GRAND TOTAL ASSETS		112,041.43	***100.00	3.50		112,041.43	***100.00	3.50	3,921.45

THE MISSION BANK
P.O. Box 130, Mission, Kansas 66201

TRUST DEPARTMENT
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ACCOUNT NUMBER 80-0270-03 CONSERVATION CHEMICAL COMPANY OF ILLINOIS ADM OFF - RJH

TRANSACTION SUMMARY

		INCOME	PRINCIPAL	INVESTMENTS
1/01/92	BEGINNING BALANCES	.00 *	.00 *	108,274.58 *
	CASH RECEIPTS	.00	4,624.72	.00
	CASH DISBURSEMENTS	.00	857.87-	.00
	SALES, CAPITAL CHANGES AND OTHER ASSET CHANGES	.00	857.87	857.87-
	PURCHASES, CAPITAL CHANGES AND OTHER ASSET CHANGES	.00	4,624.72-	4,624.72
12/31/92	ENDING BALANCES	.00 *	.00 *	112,041.43 *

THE MISSION BANK
P.O. Box 130, Mission, Kansas 66201

TRUST DEPARTMENT
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(913) 831-2400

--ASSET VALUATION SUMMARY--

A/C 80-0270-00 CONSERVATION CHEMICAL COMPANY OF ILLINOIS — ASSETS HELD AS OF 12/31/92

ADM OFFICER - PJH — INV OFFICER - RJH

	COST OR BOOK VALUE	% OF ACCOUNT	MARKET VALUE	% OF ACCOUNT	YIELD %	ESTIMATED INCOME
-- CASH EQUIVALENTS --						
MASTER NOTES & MONEY MKT FUNDS	112,041.43	100.00	112,041.43	100.00	3.50	3,921.45
TOTAL CASH EQUIVALENTS	112,041.43 *	100.00	112,041.43 *	100.00	3.50	3,921.45
TOTAL ASSETS	112,041.43 **	100.00	112,041.43 **	100.00	3.50	3,921.45
INCOME CASH	.00		.00			
PRINCIPAL CASH	.00		.00			
GRAND TOTAL ASSETS	112,041.43 ***	100.00	112,041.43 ***	100.00	3.50	3,921.45

TRUST AGREEMENT

Trust Agreement, the "Agreement," entered into as of April 27, 1983 by and between Conservation Chemical Company of Illinois, a Missouri corporation, the "Grantor," and The Mission Bank, incorporated in the State of Kansas, the "Trustee."

Whereas, the Indiana Environmental Management Board, "EMB," an agency of the State of Indiana , has established certain regulations applicable to the Grantor, requiring that an owner or operator of a hazardous waste management facility shall provide assurance that funds will be available when needed for closure and/or post-closure care of the facility,

Whereas, the Grantor has elected to establish a trust to provide all or part of such financial assurance for the facilities identified herein,

Whereas, the Grantor, acting through its duly authorized officers, has selected the Trustee to be the trustee under this agreement, and the Trustee is willing to act as trustee,

Now, Therefore, the Grantor and the Trustee agree as follows:

Section 1. Definitions. As used in this Agreement:

(a) The term "Grantor" means the owner or operator who enters into this agreement and any successors or assigns of the Grantor.

(b) The term "Trustee" means the Trustee who enters into this Agreement and any successor Trustee.

Section 2. Identification of Facilities and Cost Estimates. This Agreement pertains to the facilities and cost estimates identified on attached Schedule A.

Section 3. Establishment of Fund. The Grantor and the Trustee hereby establish a trust fund, the "Fund," for the benefit of EMB. The Grantor and the Trustee intend that no third party have access to the Fund except as herein provided. The Fund is established initially as consisting of the property, which is acceptable to the Trustee, described in Schedule B attached hereto. Such property and any other property subsequently transferred to the Trustee is referred to as the Fund, together with all earnings and profits thereon, less any payments or distributions made by the Trustee pursuant to this Agreement. The Fund shall be held by the Trustee, IN TRUST, as hereinafter provided. The Trustee shall not be responsible nor shall it undertake any responsibility for the amount or adequacy of, nor any duty to collect from the Grantor, any payments necessary to discharge any liabilities of the Grantor established by EMB.

Section 4. Payment for Closure and Post-Closure Care. The Trustee shall make payments from the Fund as the EMB Technical Secretary shall direct, in writing, to provide for the payment of the costs of closure and/or post-closure care of the facilities covered by this Agreement. The Trustee shall reimburse the Grantor or other persons as specified by the EMB Technical Secretary from the Fund for closure and post-closure expenditures in such amounts as the EMB Technical Secretary shall direct in writing. In addition, the Trustee shall refund to the Grantor such amounts as the EMB Technical Secretary specifies in writing. Upon refund, such funds shall no longer constitute part of the Fund as defined herein.

Section 5. Payments Comprising the Fund. Payments made to the Trustee for the Fund shall consist of cash or securities acceptable to the Trustee.

Section 6. Trustee Management. The Trustee shall invest and reinvest the principal and income of the Fund and keep the Fund invested as a single fund, without distinction between principal and income, in accordance with general investment policies and guidelines which the Grantor may communicate in writing to the Trustee from time to time, subject, however, to the provisions of this Section. In investing, reinvesting, exchanging, selling, and managing the Fund, the Trustee shall discharge his duties with respect to the trust fund solely in the interest of the beneficiary and with the care, skill, prudence, and diligence under the circumstances then prevailing which persons of prudence, acting in a like capacity and familiar with such matters, would use in the conduct of an enterprise of a like character and with like aims; except that:

(i) Securities or other obligations of the Grantor, or any other owner or operator of the facilities, or any of their affiliates as defined in the Investment Company Act of 1940, as amended, 15 U.S.C. 80a-2.(a), shall not be acquired or held, unless they are securities or other obligations of the Federal or a State government;

(ii) The Trustee is authorized to invest the Fund in time or demand deposits of the Trustee, to the extent insured by an agency of the Federal or State government; and

(iii) The Trustee is authorized to hold cash awaiting investment or distribution uninvested for a reasonable time and without liability for the payment of interest thereon.

Section 7. Commingling and Investment. The Trustee is expressly authorized in its discretion:

(a) To transfer from time to time any or all of the assets of the Fund to any common, commingled, or collective trust fund created by the Trustee in which the

Fund is eligible to participate, subject to all of the provisions thereof, to be commingled with the assets of other trusts participating therein; and

(b) To purchase shares in any investment company registered under the Investment Company Act of 1940, 15 U.S.C. 80a-1 et seq., including one which may be created, managed, underwritten, or to which investment advice is rendered or the shares of which are sold by the Trustee. The Trustee may vote such shares in its discretion.

Section 8. Express Powers of Trustee. Without in any way limiting the powers and discretions conferred upon the Trustee by the other provisions of this Agreement or by law, the Trustee is expressly authorized and empowered:

(a) To sell, exchange, convey, transfer, or otherwise dispose of any property held by it, by public or private sale. No person dealing with the Trustee shall be bound to see to the application of the purchase money or to inquire into the validity or expediency of any such sale or other disposition;

(b) To make, execute, acknowledge, and deliver any and all documents of transfer and conveyance and any and all other instruments that may be necessary or appropriate to carry out the powers herein granted;

(c) To register any securities held in the Fund in its own name or in the name of a nominee and to hold any security in bearer form or in book entry, or to combine certificates representing such securities with certificates of the same issue held by the Trustee in other fiduciary capacities, or to deposit or arrange for the deposit of such securities in a qualified central depositary even though, when so deposited, such securities may be merged and held in bulk in the name of the nominee of such depositary with other securities deposited therein by another person, or to deposit or arrange for the deposit of any securities issued by the United States Government, or any agency or instrumentality thereof, with a Federal Reserve bank, but the books and records of the Trustee shall at all times show that all such securities are part of the Fund;

(d) To deposit any cash in the Fund in interest-bearing accounts maintained or savings certificates issued by the Trustee, in its separate corporate capacity, or in any other banking institution affiliated with the Trustee, to the extent insured by an agency of the Federal or State government; and

(e) To compromise or otherwise adjust all claims in favor of or against the Fund.

Section 9. Taxes and Expenses. All taxes of any kind that may be assessed or levied against or in respect of the Fund and all brokerage commissions incurred by the Fund shall be paid from the Fund. All other expenses incurred by the Trustee in connection with the administration of this Trust, including fees for legal services rendered to the Trustee, the compensation of the Trustee to the extent not paid directly by the Grantor, and all other proper charges and disbursements of the Trustee shall be paid from the Fund.

Section 10. Annual Valuation. The Trustee shall annually, at least 30 days prior to the anniversary date of establishment of the Fund, furnish to the Grantor and to the appropriate EMB Technical Secretary a statement confirming the value of the Trust. Any securities in the Fund shall be valued at market value as of no more than 60 days prior to the anniversary date of establishment of the Fund. The failure of the Grantor to object in writing to the Trustee within 90 days after the statement has been furnished to the Grantor and the EMB Technical Secretary shall constitute a conclusively binding assent by the Grantor, barring the Grantor from asserting any claim or liability against the Trustee with respect to matters disclosed in the statement.

Section 11. Advice of Counsel. The Trustee may from time to time consult with counsel, who may be counsel to the Grantor, with respect to any question arising as to the construction of this Agreement or any action to be taken hereunder. The Trustee shall be fully protected, to the extent permitted by law, in acting upon the advice of counsel.

Section 12. Trustee Compensation. The Trustee shall be entitled to reasonable compensation for its services as agreed upon in writing from time to time with the Grantor.

Section 13. Successor Trustee. The Trustee may resign or the Grantor may replace the Trustee, but such resignation or replacement shall not be effective until the Grantor has appointed a successor trustee and this successor accepts the appointment. The successor trustee shall have the same powers and duties as those conferred upon the Trustee hereunder. Upon the successor trustee's acceptance of the appointment, the Trustee shall assign, transfer, and pay over to the successor trustee the funds and properties then constituting the Fund. If for any reason the Grantor cannot or does not act in the event of the resignation of the Trustee, the Trustee may apply to a court of competent jurisdiction for the appointment of a successor trustee or for instructions. The successor trustee shall specify the date on which it assumes administration of the trust in a writing sent to the Grantor, the EMB Technical Secretary and the present Trustee by certified mail 10 days before such change becomes effective. Any expenses incurred by the Trustee as a result of any of the acts contemplated by this section shall be paid as provided in Section 9.

Section 14. Instructions to the Trustee. All orders, requests, and instructions by the Grantor to the Trustee shall be in writing, signed by such persons as are designated in the attached Exhibit A or such other designees as the Grantor may designate by amendment to Exhibit A. The Trustee shall be fully protected in acting without inquiry in accordance with the Grantor's orders, requests, and

instructions. All orders, requests, and instructions by the EMB Technical Secretary to the Trustee shall be in writing, signed by the EMB Technical Secretary , or their designees, and the Trustee shall act and shall be fully protected in acting in accordance with such orders, requests, and instructions. The Trustee shall have the right to assume, in the absence of written notice to the contrary, that no event constituting a change or a termination of the authority of any person to act on behalf of the Grantor or EMB hereunder has occurred. The Trustee shall have no duty to act in the absence of such orders, requests, and instructions from the Grantor and/or EMB, except as provided for herein.

Section 15. Notice of Nonpayment. The Trustee shall notify the Grantor and the appropriate EMB Technical Secretary by certified mail within 10 days following the expiration of the 30-day period after the anniversary of the establishment of the Trust, if no payment is received from the Grantor during that period. After the pay-in period is completed, the Trustee shall not be required to send a notice of nonpayment.

Section 16. Amendment of Agreement. This Agreement may be amended by an instrument in writing executed by the Grantor, the Trustee, and the appropriate EMB Technical Secretary , or by the Trustee and the appropriate EMB Technical Secretary if the Grantor ceases to exist.

Section 17. Irrevocability and Termination. Subject to the right of the parties to amend this Agreement as provided in Section 16, this Trust shall be irrevocable and shall continue until terminated at the written agreement of the Grantor, the Trustee, and the EMB Technical Secretary , or by the Trustee and the EMB Technical Secretary , if the Grantor ceases to exist. Upon termination of the Trust, all remaining trust property, less final trust administration expenses, shall be delivered to the Grantor.

Section 18. Immunity and Indemnification. The Trustee shall not incur personal liability of any nature in connection with any act or omission, made in good faith, in the administration of this Trust, or in carrying out any directions by the Grantor or the EMB Technical Secretary issued in accordance with this Agreement. The Trustee shall be indemnified and saved harmless by the Grantor or from the Trust Fund, or both, from and against any personal liability to which the Trustee may be subjected by reason of any act or conduct in its official capacity , including all expenses reasonably incurred in its defense in the event the Grantor fails to provide such defense.

Section 19. Choice of Law. This Agreement shall be administered, construed, and enforced according to the laws of the State of Kansas.

Section 20. Interpretation. As used in this Agreement, words in the singular include the plural and words in the plural include the singular. The descriptive headings for each Section of this Agreement shall not affect the interpretation or the legal efficacy of this Agreement.

In Witness Whereof the parties have caused this Agreement to be executed by their respective officers duly authorized and their corporate seals to be hereunto affixed and attested as of the date first above written: The parties below certify that the wording of this Agreement is identical to the wording specified in

Conservation Chemical Company of Illinois
Grantor

By _____
President

Attest:

_____
E. Denver Vold, Secretary

The Mission Bank,
Trustee

By _____
Terry L. Rees, Vice-President
Trust Officer

Attest:

_____
Secretary

CERTIFICATION OF ACKNOWLEDGEMENT

State of MISSOURI

County of JACKSON

On this 27th day of April, 1983 , before me personally came Norman B. Hjersted to me known, who, being by me duly sworn, did depose and say that he resides at 4512 Mercier, Kansas City, Missouri, that he is President of Conservation Chemical Company of Illinois, the corporation described in and which executed the above instrument.

Lloyd T. Kaiser, Sr.
Notary Public

My commission expires:

LLOYD T. KAISER, SR.
Notary Public - State of Missouri
Commissioned in Jackson County
My Commission Expires November 5, 1985

CERTIFICATION OF ACKNOWLEDGEMENT

STATE OF KANSAS)
) ss
COUNTY OF JOHNSON)

BE IT REMEMBERED that on this 6th day of May, 1983, before me the undersigned, a Notary Public in and for the County and State aforesaid, came Terry L. Rees, Vice President and Trust Officer of The Mission Bank and Donna Jean Amis, Assistant Secretary of said corporation, who are personally known to me to be the same persons who executed the foregoing instrument of writing as such officers, and said Terry L. Rees, as Vice President and Trust Officer of said corporation, duly acknowledged the execution of the same to be the act of the corporation; and Donna Jean Amis, Assistant Secretary of said corporation duly acknowledged the attestation of the same for and on behalf of said corporation, and she affixed thereto the seal of the corporation.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed my official seal, the day and year last above written.

BARBARA J. WARMAN
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Expires 10/5/86

Barbara J. Warman
Notary

My Commission Expires:

10/5/86

AMENDMENT TO TRUST

On the 27th day of April, 1983, an Agreement of Trust was made by and between **CONSERVATION CHEMICAL COMPANY OF ILLINOIS**, a Missouri corporation, as Grantor and **THE MISSION BANK**, incorporated in the State of Kansas, as Trustee.

Now on this 13th day of March, 1985, **CONSERVATION CHEMICAL COMPANY OF ILLINOIS**, a Missouri corporation as Grantor and **THE MISSION BANK**, incorporated in the State of Kansas as Trustee do hereby mutually agree to exercise Section 16 of said document of Trust which states "This Agreement may be amended by an instrument in writing executed by the Grantor by the Trustee and the appropriate EMB Technical Secretary. . . ." The parties agree to the deletion, revocation and omission of the last paragraph of the document which appears on page six thereof and which states:

"In Witness Whereof the parties have caused this Agreement to be executed by their respective officers duly authorized and their corporate seals to be hereunto affixed and attested as of the date first above written: The parties below certify that the wording of this Agreement is identical to the wording specified in"

The following shall be substituted in place of the above described deletion, revocation and omission:

In Witness Whereof the parties have caused this Agreement to be executed by their respective officers duly authorized and their corporate seals to be hereunto affixed and attested as of the date first above written: The parties below certify that the wording of this Agreement is identical to the wording specified in 40 CFR 264.151(a)(1) and 320IAC 4-7-28 as such regulations were constituted on the date first above written.

In addition, Grantor deletes Section 19 which appears on page five. In its place, the following wording should be substituted.

Section 19. Choice of Law. This Agreement shall be administered, construed, and enforced according to the laws of the State of Indiana.

IN WITNESS WHEREOF, this instrument has been executed, as of the day and year first above written by Grantor, by Trustee and by the EMB Technical Secretary.

Conservation Chemical Company of Illinois
Grantor

By _____

Attest:

_____
E. Denver Vold, Secretary

State of _____)
)SS
County of _____)

Subscribed and sworn to before me this
13th day of March, 1985.

_____
Notary Public

My Commission Expires:

11-2-87

The Mission Bank,
Trustee

By _____
Rosella Hoglund, Asst. Vice President
and Trust Officer

Attest:

_____
Secretary

State of Kansas)
)SS
County of Johnson)

Subscribed and sworn to before me this
13th day of March, 1985.

_____
Notary Public

My Commission Expires:

8-28-88

MARY A. HARMON
NOTARY PUBLIC
STATE OF KANSAS
My Appointment Expires 8-28-88

On this 13th day of March, 1985, before me personally came N.B. Hjersted to me known, who, being by me duly sworn, did depose and say that he resides at 4512 Mercier, Kansas City, MO. 64111, that he is President of Conservation Chemical Company of Illinois, the corporation described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to such instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation, and that he signed his name thereto by like order.